OPERATING INSTRUCTIONS

JVC®

COLOR TELEVISION USER'S GUIDE

Illustration of AV-36850 and RM-C745

FOR MODELS:

AV-36850 • AV-32850 • AV-27850 • AV-32820

In the spaces below, enter the model and serial number
for your television (located on the rear of the television cabinet).
Staple your sales receipt or invoice to the inside cover of this guide.
Keep this user's guide in a convenient place for future reference.
Keep the carton and original packaging for future use.

Model Number _____

Serial Number _____

No.51289

IMPORTANT SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To reduce the risk of electric shock. do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

* When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.

* To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT SAFEGUARDS

CAUTION:

Please read and retain for your safety.

Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazards.* In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing.
And also follow all warnings and instructions marked on your TV set.

INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

(POLARIZED-TYPE)

This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.

2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.

3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

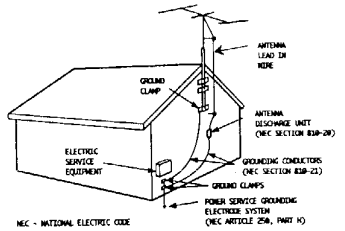
4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.

5 Do not use this TV set near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection requirements for the grounding electrode.

7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ARTICLE 250, PART H)
NEC - NATIONAL ELECTRIC CODE

8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. Therefore:
- — Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
- — Never place a TV set in a "built-in" enclosure unless proper ventilation is provided.
- — Never cover the openings with a cloth or other material.
- — Never place the TV set near or over a radiator or heat register.

9 To avoid personal injury:
- — Do not place a TV set on a sloping shelf unless properly secured.
- — Use only a cart or stand recommended by the TV set manufacturer.
- — Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- — Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

USE

10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.

11 Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.

12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.

13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.

14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

SERVICE

15 Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
- A. When the power cord or plug is damaged or frayed.
- B. If liquid has been spilled into the TV set.
- C. If the TV set has been exposed to rain or water.
- D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
- E. If the TV set has been dropped or damaged in any way.
- F. When the TV set exhibits a distinct change in performance — this indicates a need for service.

16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel

17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.

18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.

19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

20 Note to CATV system installer.
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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CONNECTIONS CHECKLIST

READ ME BEFORE CONNECTIONS

1) Refer to the connection instructions in the user's guide for each component you plan to connect (they will provide more detailed information about their products than we can provide).

2) Most A/V input jacks and plugs are color coded:
   - Yellow plugs are Video connections
   - Red plugs are for Right Audio connections
   - White (or black) plugs are Left Audio (Mono) connections

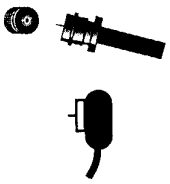
3) Perform one hookup at a time. If you have many accessories to connect, make sure each connection is correct by checking to see that it works properly before attempting the next connection.

4) Unplug the power cord between each connection.

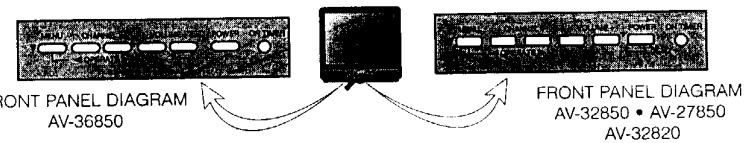
5) Each jack on the back of the TV is labeled. If you read these instructions and still do not fully understand the connections process, seek assistance.

A/V input plug

RF Connectors

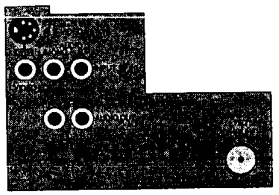


FRONT AND REAR PANEL DIAGRAMS

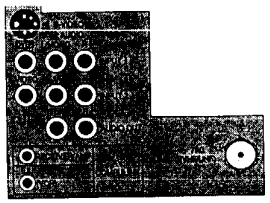


FRONT PANEL DIAGRAM
AV-36850

FRONT PANEL DIAGRAM
AV-32850 • AV-27850
AV-32820



REAR PANEL DIAGRAM
AV-32820



REAR PANEL DIAGRAM
AV-36850 • AV-32850 • AV-27850

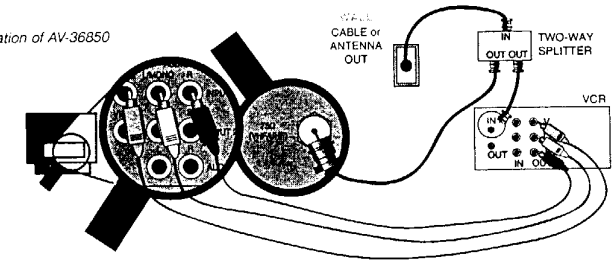
6 CONNECTIONS

CABLE & VCR CONNECTIONS

There are three basic types of antenna or cable hookups. If you have an antenna, or have a cable TV system that does not require you to use a cable box to tune channels, use **Diagram #1.** If you have a cable system that requires you to use a cable box to access all channels, use **Diagram #2.** If you have a cable system that requires you to use a cable box to access certain premium channels, but not regular basic channels, use **Diagram # 3.**

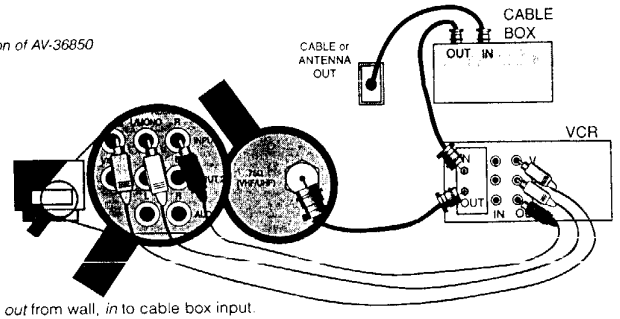
NOTES: *To get stereo sound from a hi-fi stereo VCR, you must connect it to the TV with Audio/Video cables. Also, to get the best picture quality from any VCR use Audio/Video cables. (Use them! You'll be glad you did.)*

#1 *Illustration of AV-36850*



1) Cable or antenna wire *out* from wall, *in* to splitter RF input.
2) *Out* from splitter RF output, *in* to VCR RF input.
3) *Out* from splitter RF output, *in* to TV VHF/UHF input.
4) Yellow video cable *out* from VCR Video output, *in* to TV Video input jack.
5) White audio cable *out* from VCR Left Audio output, *in* to TV Left Audio input jack.
6) Red audio cable *out* from VCR Right Audio output, *in* to TV Right Audio input jack.
❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

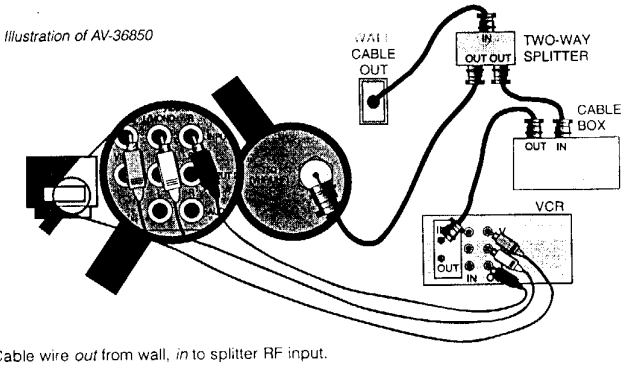
#2 *Illustration of AV-36850*



1) Cable wire *out* from wall, *in* to cable box input.
2) *Out* from cable box RF output, *in* to VCR RF input.
3) *Out* from VCR RF output, *in* to TV VHF/UHF input.
4) Yellow video cable *out* from VCR Video output, *in* to TV Video input jack.
5) White audio cable *out* from VCR Left audio output, *in* to TV Left Audio input jack.
6) Red audio cable *out* from VCR Right Audio output, *in* to TV Right Audio input jack.
❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

CABLE & VCR CONNECTIONS CONTINUED

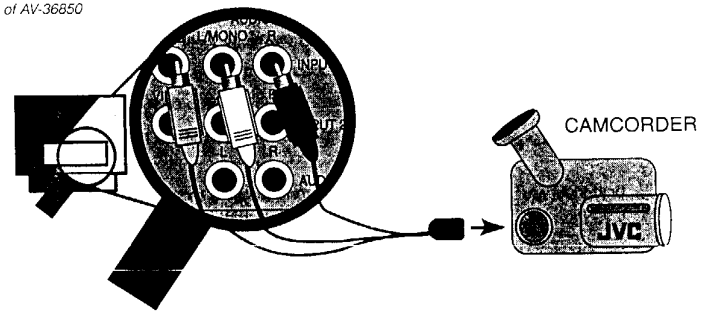
#3 *Illustration of AV-36850*



1) Cable wire *out* from wall, *in* to splitter RF input.
2) *Out* from splitter RF output, *in* to cable box RF input.
3) *Out* from cable box RF output, *in* to VCR RF input.
4) *Out* from splitter RF output, *in* to TV VHF/UHF input.
5) Yellow video cable *out* from VCR Video output, *in* to TV Video input jack.
6) White audio cable *out* from VCR Left audio output, *in* to TV Left Audio input jack.
7) Red audio cable *out* from VCR Right Audio output, *in* to TV Right Audio input jack.
❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

CONNECTING TO A CAMCORDER

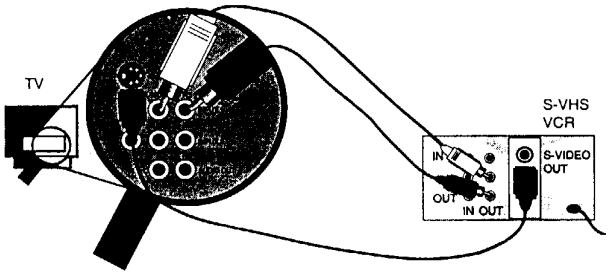
Illustration of AV-36850



Connect a camcorder to your TV.
1) White audio cable *out* from camcorder plug, *in* to TV Left Audio input jack.
2) Yellow video cable *out* from camcorder plug, *in* to TV Video input jack.
3) If you have a stereo model camcorder, Red audio cable *out* from camcorder, *in* to TV Right Audio input jack.
❒ *Refer to the camcorder's instruction book for any special instructions.*

CONNECTING S-VHS ACCESSORIES (VCR or Camcorder)

Illustration of AV-36850



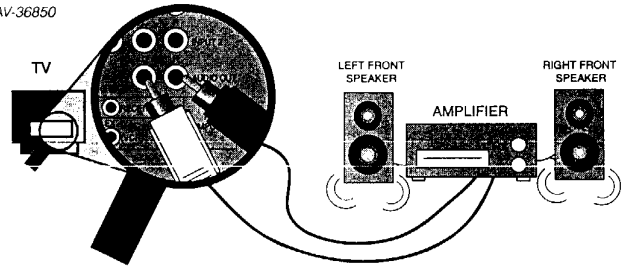
Keeping the audio connections the same as for a non-S-VHS VCR or camcorder (page 7), use the special S-VHS cable that came with the VCR or Camcorder. Illustration is of S-VHS VCR hookup.

1) S-VHS Plug *out* from VCR *in* to TV's S-Video input.

❒ *Refer to your VCR or camcorder instructions.*

CONNECTING TO AN EXTERNAL AMPLIFIER

Illustration of AV-36850



Set the TV Speaker to OFF (page 20), switch the audio output to VARI (page 20), and adjust the sound with the TV remote's VOLUME -/+ button (page 11.)

1) White audio cable *out* from TV Left Audio output jack *in* to Amplifier [Left] input.

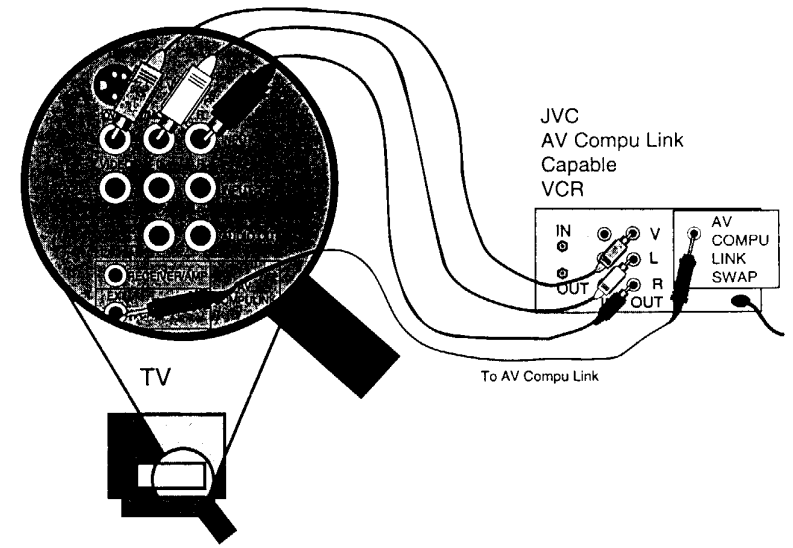
2) Red audio cable *out* from TV Right Audio output jack *in* to Amplifier [Right] input.

❒ *Refer to the amplifier's instructions.*

CONNECTING TO JVC AV COMPULINK CAPABLE COMPONENTS

AV Compu Link makes playing video tapes totally automatic. Simply insert a pre-recorded tape* into the VCR, and the VCR automatically turns on and starts playing. At the same time, the VCR sends an AV Compu Link signal to the television telling it to turn on and switch to the correct video input.

Illustration of AV-36850



NOTES:

1) The AV Compu Link cable has a Male 3.5 mm (mono) mini plug on each end.

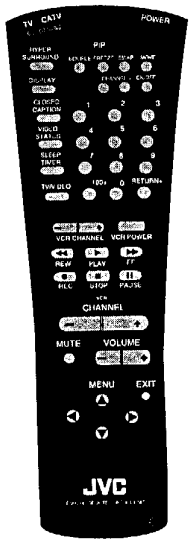
2) If your JVC brand VCR has A Code/B Code Remote Control Switching (see VCR instructions), using VCR A Code will switch the TV to Video Input 1. Using B Code will switch the TV to Video Input 2.

3) To connect a JVC HiFi receiver or amplifier for a completely automated home theater, see the HiFi receiver's instructions for detailed hookup diagrams.

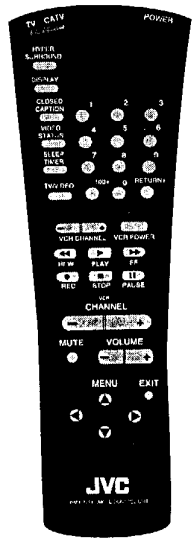
** In order for AV Compu Link to work, the recording tabs must be removed from the VHS tape.*

REMOTE CONTROLS

RM-C745
AV-36850 • AV-32850 • AV-27850



RM-C747
AV-32820



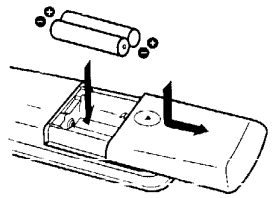
CHANGING THE REMOTE CONTROL'S BATTERIES

Use only size AA batteries.

1 Push down on the remote's back cover and slide towards the bottom to remove it.

2 Insert the two supplied AA batteries, carefully noting the "+" and "–" markings on the batteries and remote control. To avoid a short circuit, insert "–" end first.

3 Slide the cover back into place (until it clicks into position).



❒ *If it takes more than three minutes to change the batteries, you may have to reprogram the CATV and/or VCR codes (see page 12-13.)*

❒ *If the remote control acts erratically, replace the batteries. Battery life is usually six months to one year.*

❒ *We recommend the use of alkaline batteries for longer battery life.*

POWER

❒ Make sure that the TV/CATV switch is set to TV. Switch to CATV only if you plan to operate a cable box.

❒ Press the POWER button on the remote control or the TV front panel. The On Timer lamp will glow red.

❒ The first time you turn on the TV, the "Plug In Menu" will appear. You should turn to page 15 now to learn more about this menu.

❒ To turn the power off, press the POWER button again. The On Timer lamp will go out.

❒ The On Timer lamp remains on while the On/Off Timer function is active.

ADJUSTING VOLUME

1 Press the VOLUME button on the front panel or remote control. The volume slidebar will appear.

2 Press the MUTE button to instantly turn the volume off. To restore the volume to the previous level, press the MUTE button again.

CHANGING CHANNELS

1 10 key direct access.

Press the numbers on the remote's 10 key pad. For single-digit channel numbers press 0 then the number. For channels above 100, press the 100+ button plus the 2-digit number.

2 CHANNEL -/+ button.

Press the CHANNEL -/+ button, it will scan the channels in order.

❒ *NOTE: After you operate the Auto Tuner Setup (page 15), all of the blank, or empty, channels will be removed from scanning so that there is no noise or channel snow when you scan, only active channels.*

3 Return.

Press and release the RETURN+ button to return to the previous channel. First, select a channel (game #1). Then, select another channel (game #2) with the 10 key pad and push the RETURN+ button to flip directly back and forth.

4 Return+ .

Press and hold down the RETURN+ button for three seconds. The message, "RETURN CHANNEL PROGRAMMED !" will appear and you can scan as you wish. Press RETURN+ again and you will go back to the Return+ channel.

To cancel a Return+ channel, press and hold down the RETURN+ button for another three seconds and the message, "RETURN CHANNEL CANCELED !" appears.

❒ Pressing a number key or turning the set off will also cancel a Return+ channel.

SETTING THE CATV & VCR CODES

Many CATV & VCR brands have more than one code. If the first code in the list does not work, try the other codes listed. If your CATV box or your VCR do not respond to any of the codes listed for the manufacturer, use the remote control for that accessory to operate it.

CABLE BOX OR SATELLITE SETUP

1) Determine the correct code from the "CATV & Satellite Codes" chart below.
2) Slide the 2-Way Mode Selector Switch to CATV.
3) Press and hold down the DISPLAY button.
4) Enter the 2-digit code with the 10 key pad while continuing to hold down the DISPLAY button.
5) Release the DISPLAY button.
6) Confirm the operation of the cable box.

CATV & Satellite Codes

CABLE BOXES	CODES
ABC	35 01 11 02 33 91 55
Antronix	44
Archer	29 01 44 88 91 63 42 30 52 76
Belcor	82
Cablestar	82
Cabletenna	29 01 44 88 91 76
Cableview	63 44 42 30 52 88
Century	63 44 42 30 52 88
Citizen	63 44 42 30 52 88
Colour Voice	23
Comtronice	42 21
Contec	10
Curtis	08 09 56 61 87 90
Diamond	29 01 44 88 91 76
Drake	37 67 71
Eagle	13 22 58 62 20 40 26 21
Eastern	28 99
Focus	59
GC Electronics	63 44 42 30 52 88 82
Gemini	04 85 32 30
General Electric	57
General Instruments	01 02 03 04 34 55 83 85 91 93 95
Gerrard	63 44 42 30 52 88
Hamlin	14 15 28 41 99
Hitachi	31 79 02 80
Hytex	11
Jerrold	01 02 03 04 34 55 83 85 91 93 95
Macom	31 79 80
Magnavox	25 26 13
Matsushita	16 17

CABLE BOXES	CODES
Memorex	07
Movietime	32 39 29 42 44 88 40 38 60
NSC	38 40 32
Oak	11 46 10 12 47
Panasonic	16 17
Paragon	07
Philips	13 20 23 24 96 30 84
Pioneer	05 06 78
Popular Mechanics	59
Pulsar	63 44 42 30 52 88 07
Quest	01 02 03 04 34 55 83 85 91 93 95
RCA	16 17
Realistic	51 44 88 53
Recoton	59 63 44 42 30 52 88
Regal	14 41
Regency	28 99
Rembrandt	32 39 29 42 44 88 02 60
Runco	07
Salora	68 72
Samsung	16 17 06 32 40 42 78 94
Scientific Atlanta	08 09 56 61 87 90
Sheritech	27
Signal	13 22 58 62 20 40 26 04 42 32 42 78 94 21
Signature	02
SL Marx	32 40 42 78 94 63 44 30 52 88
Sprucer	16 17
Standard Components	32 39 29 42 44 88 18 60
Starcom	01 04 55
Stargate	32 40 42 78 94 04 63 44 30 52 88

CABLE BOXES	CODES
Starquest	04
Sylvania	19 35
Tandy	62
Teknika	74 54
Telecaption	92 77
Teleview	32 40 42 78 94
Texscan	18 19 35
Tocom	33 34 48 49 01 42 91 73
Toshiba	36 07 66 70
Tusa	04
TV86	40
Unidon Satellite	65 69
Unika	29 01 44 88 91 63 42 30 52 76
United Artists	11
United Cable	01
Universal	42 43 44 52 63 88 82
Videoway	07 50 23 45
Vid Tech	64
Victer	64
Viewstar	13 22 58 62 20 40 26 21
Zenith	07 50 23 75
Zentek	59

DIGITAL SATELLITE SYSTEMS	CODES
RCA	97
Sony	98

VCR SETUP

The remote is pre-programmed with the VCR codes for power on and power off, play, stop, record, pause, fast-forward, rewind, and channel up and down.

1) Determine the correct code from the "VCR Codes" chart (page 13).
2) Slide the 2-Way Mode Selector Switch to TV.
3) Press and hold down the DISPLAY button.
4) Enter the 2-digit code with the 10 key pad while continuing to hold down the DISPLAY button.
5) Release the DISPLAY button.
6) Confirm the operation of the VCR.

VCR Codes

VCRs	CODES
Admiral	84 40 07 31 06 65
Aiko	46
Aiwa	31 35 94 27 03 87 34 28 26 29
Akai	32 33 20 26 28 64 21
American High	01 05
Asha	03
Astra	03 94 52 15 27 89 32 90 91 83
Audio Dynamics	26 27 88 97 64
Audiovox	15
Aventura	31 35 94 27 03 87 34 28 26 29
Beaumark	98 03 02 05 06 56 57 72 34 04 99 75
Belcor	34 35 46 47
Bell & Howell	16 08 76
Broksonic	10 12 35 87 77 78
Calix	15
Candle	03 94 52 15 27 89 32 90 91 83
Canon	65 01 02 05 06 41 42 71 04 18 03 56 92 22
Capehart	34 35 46 47
Carrera	03 94 52 15 27 89 32 90 91 83
Carver	18 24
CCE	35 46
Citizen	89 15 31 36 46 47 79 94
Classic	89 15 31 36 46 47 79 94
Colortyme	27 21 01
Colt	35
Craig	03 08 15 43 31 26 28
Crosley	31 35 94 27 03 87 34 28 26 29
Curtis	34 35 46 47 03 94 52 15 27 89 32 90 91 83
Curtis Mathes	65 01 02 05 06 41 42 71 04 18 03 56 92
Cyberex	03 94 52 15 27 89 32 90 91 83
Daewoo	34 35 46 47 25
Daytron	34 35 46 47
DBX	26 27 88 97 64
Denon	98 03 02 05 06 56 57 72 34 04 99 75
Dumont	03 94 52 15 27 89 32 90 91 83
Dynatech	31 35 94 27 03 87 34 28 26 29
Dynatone	89 15 31 36 46 47 79 94
Electrohome	19 92 20 21 67 80 95 15 45
Electron	98 03 02 05 06 56 57 72 34 04 99 75
Electrophonic	28 15 26 29 53 55 59
Emerex	38
Emerson	10 87 11 12 13 14 08 15 86 37 62 19 25 65 58 78 77 31 45 20 21 60 66
Encore	65 01 02 05 06 41 42 71 04 18 03 56 92
Everex	39 02 25 89 94 70
Fisher	08 09 51 16
Fuji	01 05 23
Funai	31 35 94 27 03 87 34 28 26 29
Garrard	31
GE	65 03 04 05 06 56 01 57
Goldstar	89 15 31 36 46 47 79 94 27
Go Video	90 91
Gradiente	31
Granada	65 01 02 05 06 41 42 71 04 18 03 56 92
Grundig	01
Harley Davidson	31 35 94 27 03 87 34 28 26 29
Harmon/Kardon	21 19 27 20
Harvard	35 43
Harwood	35
Headquarter	16

VCRs	CODES
HI-Q	08
Hitachi	39 02 25 89 94 28 64 70 81
Homeline	89 15 31 36 46 47 79 94
Images	90 91
ITT	28 15 26 29 53 55 59
J.C. Penney	65 02 15 27 03 05 94
Jensen	26 29 28 64
JVC	00 85 28 15 26 29 64 53 55 59
Kenwood	26 28 29 27 64 16
KLH	35 43
Kodak	01 05 15
Lloyd	31 35 94 27 03 87 34 28 26 29
Lloyd's	11
Logik	31 35 94 27 03 87 34 28 26 29
LXI	15
Magnasonic	34 35 46 47 03 94 52 15 27 89 32 90 91 83
Magnavox	65 18 05 25 31 01 24 06 56 35 94 27 03 87 34 28 26 29
Magnin	03 94 52 15 27 89 32 90 91 83
Marantz	27 21 01 05 18 24
Marta	89 15 31 36 46 47 79 94
Matsui	03 94 52 15 27 89 32 90 91 26 31 16 29 83
Matsushita	01 05
Megasonic	02 15 16 09 08 61 34 19 65 31 67
MEI	01 05
Memorex	65 15 08 31 07 16 01 05 18 84 03 24
MGA	19 92 20 21 67 80 95 45
MGN	03 94 52 15 27 89 32 90 91 83
MGN Technology	03
Midland	98 03 02 05 06 56 57 72 34 04 99 75
Minolta	39 02 25 89 94 70
Mitsubishi	19 92 20 21 67 80 95 29 45
Mont. Ward	65 01 02 05 06 41 42 71 04 18 03 56 92 84 40 07 31 06
Motoroia	01 05 07 84
MTC	31 35 94 27 03 87 34 28 26 29 52 15 89 32 90 91 83
Multitech	31 35 94 27 03 87 34 28 26 29
NAD	54
National	98 03 02 05 06 56 57 72 34 04 99 75
NEC	26 27 88 97 28 64 29
Nikko	89 15 31 36 46 47 79 94
Noblex	03
Olympus	65 01 02 05 06 41 42 71 04 18 03 56 92
Optimus	54 15 07 84
Optonica	84 40 07 31 06 65
Panasonic	65 01 02 05 06 41 42 71 04 18 03 56 92 72 82
Paxsonic	03 94 52 15 27 89 32 90 91 83
Penney	01 05 15 27 02 39 51 03
Pentax	65 02 39 70
Philco	65 01 02 05 06 41 42 71 04 18 03 56 92 34 35 46 47
Philips	65 96 18 05 31 25 01 40
Pilot	89 15 31 36 46 47 79 94
Pioneer	39 02 25 89 94 54 44 29 70
Portland	34 35 46 47
Proscan	98 03 02 05 06 56 57 72 34 04 99 75
Protec	35
Pulsar	34 35 46 47 18 24 03 94 52 15 27 89 32 90 91 83

VCRs	CODES
Quarter	16
Quartz	16
Quasar	65 01 02 05 06 41 42 71 04 18 03 56 92 72
Radix	15
Radio Shack	31 15
Randex	89 15 31 36 46 47 79 94
RCA	98 03 02 05 06 56 57 72 34 04 99 70 75
Realistic	65 07 15 16 08 31 32 01 05 84 40 09 03
Ricoh	30
Runco	24
Sanky	18 24 07 84
Sansui	43 31 26 28 64 29 03
Samsung	03 94 52 15 27 89 32 90 91 25 83
Sanyo	16 08 76 03
Scott	10 11 19 74 87 25 12 14
Sears	02 15 16 09 08 61 34 19 65 31 67 01 05 39 51 73 70 00 85
Semitsu	34 35 46 47
Sharp	84 40 07 31 06 65
Shintom	35 43
Shogun	03 94 52 15 27 89 32 90 91 83
Signature	65 01 02 05 06 41 42 71 04 18 03 56 92 84 40 07 31 06
Singer	35 43
Sony	23 30 38 50 49 16 17 01 05 48
Soundesign	31 35 94 27 03 87 34 28 26 29
STS	02 39
Sylvania	65 96 18 05 31 25 01 19 45
Symphonic	31 35 94 27 03 87 34 28 26 29
Syqmax	34 35 46 47
Tatung	26 29 28 64
Teac	31 35 94 27 03 87 34 28 26 29 64
Technics	65 01 02 05 06 41 42 71 04 18 03 56 92
Technivox	89 15 31 36 46 47 79 94
Teknika	31 36 65 01 15 05
Telefunken	11 31
Thomas	31 35 94 27 03 87 34 28 26 29
TMK	11 31 03
Toshiba	02 25 73 19 45 09
Totevision	03 94 52 15 27 89 32 90 91 83
Unitech	03 94 52 15 27 89 32 90 91 83
Vector	25
Vector Research	27 21 01
Video Concepts	27 21 01 25 20
Videosonic	26 27 31 16 29 03
Wards	31 01 05 02 08 07 84 40 35 06 56 25 03
XR-1000	31 35 94 27 03 87 34 28 26 29 01 05
Yamaha	26 27 31 16 29 28 64
Zenith	93 23 24 30 18

14 USING THE MENU

SYMBOLS USED IN THIS GUIDE:

▲▼ Up and down arrows indicate you should press the MENU UP or MENU DOWN button. This function allows you to:
- Move vertically in the main menu
- Move through a submenu, or
- Move to the next letter, number, or other choice in a submenu
- Back up to correct an error

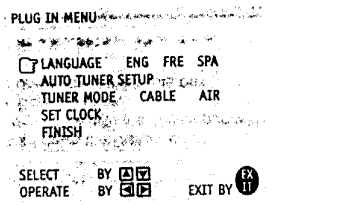
◀▶ Left and right arrows indicate you should press the MENU LEFT or MENU RIGHT button to:
- Select the highlighted item, or
- Select the options in a submenu

The "Press Button" means you should press that button on the remote control.

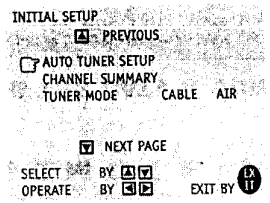
The "Helping Hand" points to the highlighted or selected item in a menu.

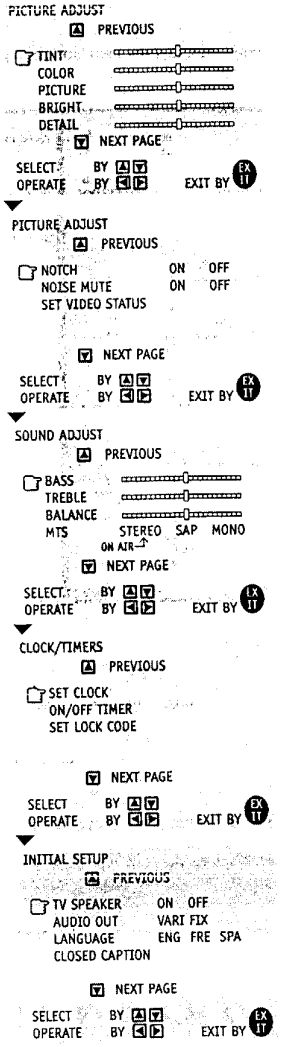
To use the Menu, press any of the remote's 4-way cursor control (MENU) buttons and JVC's transparent scrolling menu will appear on screen. The item that appears yellow is the selected item.

NOTE: The menu screens depicted in this book are representations of the menu screens on your set. They are not exact replications.



The "Plug In Menu" only appears immediately after the TV is plugged in, or after a power interruption of more than 90 seconds





PLUG IN MENU 15

PLUG IN MENU

The Plug In Menu comes up automatically when you first turn on the TV after plugging it in. The Plug In Menu sets the default preferences for you for:

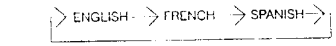
- ❒ The Language you want the onscreen displays to appear.
- ❒ The Auto Tuner Setup of channels to be included in scan.
- ❒ The Tuner Mode the TV is set to — Air or Cable.
- ❒ The time of the TV's Clock.

Once you have set your preferences in the Plug In Menu section, it will not appear again unless there is a power interruption.

LANGUAGE

Choose from English, French, or Spanish on-screen menus and displays.

▲▼ To LANGUAGE



◀▶ To choose the language

AUTO TUNER SETUP

During Auto Tuner Setup, the TV will automatically scan through all available channels and memorize the active ones so that when you scan, you do not pick up vacant, weak or noisy channels.

▲▼ To AUTO TUNER SETUP

◀▶ To operate

The Programming takes approximately 3 to 4 minutes

Note: Noise Mute will not work while Auto Tuner Setup is working.

Note: Some weak channels may be included or omitted during this procedure. You can add or delete any channels for scanning in the Channel Summary menu, page 21.

TUNER MODE

Tuner Mode lets you choose between over-the-air broadcasts (AIR) or cable (CABLE) stations.

▲▼ To TUNER MODE

◀▶ To operate

Note: Cable mode requires a cable hookup, see pages 6 and 7 for details.

NOTES:

You can exit the Plug In Menu at any time by pressing the EXIT button on the remote control. You can enter the Plug In Menu any time by simultaneously pressing the MENU button and VOLUME "–" button on the TV's front panel.

NOTES:

Remember, the Plug In Menu will only appear after you turn on the TV for the first time, or after a power interruption.

SET CLOCK

The Clock is the heart of all timer functions. You must set the clock before the On/Off Timer will work.

▲▼ To SET CLOCK
◀▶ To operate

◀▶ To set the hour (AM/PM)
▼ To move to minutes
◀▶ To set the minutes
▼ To move to START CLOCK when done with settings
◀▶ To start the clock

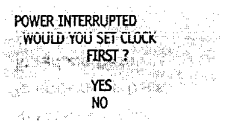
THANK YOU !!

If you want to synchronize the TV clock with another clock or time signal, press LEFT or RIGHT MENU arrow at the appropriate time, and the clock will start.

Note: If the TV is unplugged or you experience a power outage, you must reset the clock for any timer functions to work.

CLOCK SET MESSAGES:

If you do not set the clock but attempt to use the On/Off Timer anyway, you will get the following message:



▼ To YES/NO
◀▶ Choose YES

Continued above...

Continued from below...

If you choose NO, you will receive the following message:

Note: If you attempt to "Start Clock" without setting the time you will receive this message:

FINISH

Once you have set up the items in the Plug In Menu you must select Finish. Finish tells the TV that you have selected your personal default options for the menu and clock, and unless there is a power interruption, the Plug In Menu will not show up again.

▲▼ To FINISH
◀▶ To exit and save settings

Note: You can reset the options available in Plug In Menu via the regular JVC menu system:

- ❒ Language is found in the Initial Setup Menu.
- ❒ Auto Tuner Setup is found in the Initial Setup Menu.
- ❒ Tuner Mode is found in the Initial Setup Menu.
- ❒ Set Clock is found in the Clock/Timers Menu.

TINT

Adjust the levels of red and green.

▲▼ To TINT
▶ To accentuate green
◀ To accentuate red
▲▼ To move to the next

COLOR

Adjust both the vividness and subtlety of the color.

▲▼ To COLOR
▶ To make colors more vivid
◀ To subdue colors
▲▼ To move to the next

PICTURE

Picture allows you to adjust the picture's range of black and white.

▲▼ To PICTURE
▶ To increase contrast
◀ To decrease contrast
▲▼ To move to the next

BRIGHT

Adjust the degree of light and dark.

▲▼ To BRIGHT
▶ To lighten the picture
◀ To darken the picture
▲▼ To move to the next

DETAIL

Adjust the level of detail in the picture.

▲▼ To DETAIL
▶ To make the picture sharper
◀ To make the picture smoother
▲▼ To move to the next

NOTCH

The Notch Filter sharpens the edges of graphics and text, especially in computer generated graphics common in news and sports programs.

▲▼ To NOTCH
◀▶ To turn ON/OFF

NOISE MUTE

Inserts a blue screen and eliminates noise from channels that are not broadcasting or are too weak.

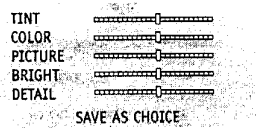
▲▼ To NOISE MUTE
◀▶ To turn ON/OFF

Note: Noise Mute will not work when you operate the Auto Tuner Setup or Channel Summary.

SET VIDEO STATUS

Save Picture Settings as "Choice".

▲▼ To SET VIDEO STATUS
◀▶ To operate



◀▶ To operate the TINT option
▲▼ To move to the next option

Repeat the above steps to set each option.

▲▼ To SAVE AS CHOICE
◀▶ To save settings and exit

Note: Access your "Choice" settings by pressing the VIDEO STATUS button on the remote control.

NOTES:

To exit the Picture Adjust menu at any time press the EXIT button.

18 SOUND ADJUST

NOTE:
MTS has no effect on normal sound broadcasts.

BASS

▲▼ To BASS slidebar
▶ To emphasize bass
◀ To reduce bass
▲▼ To move to next

TREBLE

▲▼ To TREBLE
▶ To increase treble
◀ To decrease treble
▲▼ To move to next

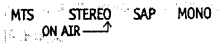
BALANCE

▲▼ To BALANCE
▶ To shift balance to the right
◀ To shift balance to the left
▲▼ To move to next

MTS (Multi-Channel Television Sound)

MTS technology gives you a choice among stereo, mono, and Second Audio Programs (SAP).

▲▼ To MTS



◀▶ Select the mode

(The ON AIR arrow tells you if the current signal contains Stereo or SAP)

Note: Keep the TV in STEREO mode to get the fullest sound quality.

Note: SAP will allow you to hear an alternative soundtrack, if available.

Note: Choose MONO to reduce excess noise in a program or channel.

Some Sound Advice

You can tell if a program is broadcast in stereo by the position of the ON AIR arrow in the MTS menu. Unfortunately, it is common for some cable companies to squash the transmission of stereo programs to mono because they only have mono equipment. If your TV is connected to a cable system, the sound is at the mercy of that cable company — if they broadcast in mono, you receive mono sound regardless of the original stereo programming.

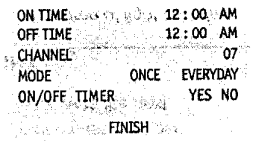
Fortunately, most programs that are broadcast in stereo are aired on the major television networks. If you connect your TV to an antenna instead of cable, and set the Tuner Mode (page 15) to "Air" instead of "Cable," you will be able to pick up stereo broadcasts in stereo.

CLOCK/TIMERS 19

ON/OFF TIMER

YOU tell the TV to turn on and off. Use it as an alarm to wake up, as a program reminder, or as a decoy when you're out of the house.

▲▼ To ON/OFF TIMER
◀▶ To operate



◀▶ To set the hour (AM/PM) you want the TV to turn on
▼ To move to minutes
◀▶ To set the minutes
▼ To accept ON TIME and to move to OFF TIME (set time again)
▼ To move to CHANNEL
◀▶ To select channel
▼ To move to MODE
◀▶ Choose ONCE or EVERYDAY
▼ To YES NO
◀▶ Choose YES for on, NO for off
▼ To FINISH
◀▶ To save settings

Note: In order for ON/OFF Timer to work, the clock must be set. After a power interruption it will be cancelled.

Note: ON/OFF Timer cannot be set to locked or guarded channels.

SET LOCK CODE

The Lock Code locks and unlocks Channel Guard. Write this three digit number down and keep it where would-be viewers will not look for it!

▲▼ To SET LOCK CODE
◀▶ To operate

The padlock icon appears

Zero (*the access code is zero*)

◀▶ To choose the first number
▼ To move to the second place
◀▶ To choose the second number
▼ To move to the third place
◀▶ To choose the third number
▼ To FINISH
◀▶ To save settings and exit

Note: If you forget the Lock Code you can set another one this same way.

Note: After a power interruption you must reset the lock code.

NOTE:
Clock/Timers function:

• Set Clock

is described in full detail on page 16.

NOTE:
Initial Setup Menu item:

- *Language*

is described in full detail in the Plug In Menu section on page 15.

TV SPEAKER

You can listen to the TV speakers, or if your set is connected to a stereo, turn them off to listen to the stereo's speakers.

▲▼ To TV SPEAKER

◀▶ To turn the speaker ON or OFF

TV SPEAKER ON OFF

EXIT when finished

Note: TV Speaker will be cancelled after a power interruption.

Note: Before you set TV Speaker from Off to On, **make certain that the volume level is low!** If the volume is high, the sound will be extremely loud.

AUDIO OUT

Select fixed level or variable level audio output signals.

▲▼ To AUDIO OUT

AUDIO OUT VARI FIX

◀▶ To VARI or FIX

VARI: Adjust the volume of the external speaker by using the TV's VOLUME +/– button or it's remote control.

FIX: Adjust the volume of the external speaker with the audio device controls.

Note: When using external amplifiers and speakers, shut off the TV Speakers (above).

CLOSED CAPTION

If they are included in a program, you can view closed captions or text information.

▲▼ To CLOSED CAPTION

◀▶ To operate and select a caption or text channel

CAPTION: CC1 CC2 CC3 CC4
TEXT : T1 T2 T3 T4
FINISH

▲▼ To FINISH

◀▶ To save settings

EXIT when finished

Note: Captions are usually found on CC1 and text on T1. The other caption and text channels are workable but are for future purposes.

Note: To activate the Closed Caption settings that you set here:

CLOSED CAPTION

(See page 22 for complete details on the CLOSED CAPTION button.)

CHANNEL SUMMARY

You can add or delete channels from channel scanning. You can also lock out any "unauthorized" viewers from one or up to all 181 channels.

▲▼ To CHANNEL SUMMARY

◀▶ To operate

Note: Noise Mute will not work while you are in the Channel Summary menu.

SCAN

You can manually set channels to scan that were too weak to be picked up during Auto Tuner Setup. Conversely, if a channel was too weak to receive a good picture but was picked up anyway, delete it by removing the √. (If you have not performed the Auto Tuner Setup described on page 15, do so now.)

CH NO.	SCAN	🔒	CH NO.	SCAN	🔒
			06	√	
02	√		07		
03	√		08		
04	√		09	√	
05	√		10	√	

CHANNEL -/+ to select the channel

▲▼ To the SCAN column

◀▶ To include or delete from scan

EXIT when finished

Note: Channels set to scan will be marked with a √.

Note: Some cable systems experience interference from radio frequencies on Cable Channel 95. If you like, you can delete this channel from scanning by removing the √.

Continued above...

Continued from below...

CHANNEL GUARD - LOCK

▲▼ To CHANNEL SUMMARY

◀▶ To operate

CH NO.	SCAN	🔒	CH NO.	SCAN	🔒
			06	√	
02	√		07		🔒
03	√		08		🔒
04	√		09	√	
05	√		10	√	

▲▼ To the Lock column

The access code zero (0) to lock or unlock that channel

Use the CHANNEL-/+ button to go to any other channel you want to lock

EXIT when finished

CHANNEL GUARD MESSAGE:

This message appears when a viewer attempts to watch a guarded channel:

THIS CHANNEL IS LOCKED BY
CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
NO. ___

To watch a channel you have locked, enter the lock code using the 10 key pad.

If the wrong lock code is entered, this message will appear:

INVALID LOCK CODE !

NOTES:

Initial Setup Menu items

- *Auto Tuner Setup, and*
- *Tuner Mode are described in detail on page 15 in the Plug In Menu section.*

In the Channel Summary:

To move up and down a column (e.g. from channel to channel) use the CHANNEL-/+ button

To move from item to item (e.g. from channel number to add to lock) use the arrow up/down keys.

NOTES:
Please note that if the TV Clock, SleepTimer, or On/Off Timer are not set, the initial Display screen will state "Clock Not Set," "Sleep Timer Off," and "On/Off Timer Off," respectively.

DISPLAY

The Display screen shows the current status of timers and inputs.

DISPLAY

07

NOW	12:20 PM
SLEEP TIMER	OFF
ON/OFF TIMER	EVERYDAY
ON TIME	7:00 PM
OFF TIME	10:00 PM

- ❑ The channel or AV input (Channel 07)
- ❑ Current time (12:20 PM)
- ❑ Sleep Timer status minutes remaining (Off)
- ❑ On/Off Timer status (Everyday, on at 7:00 PM, off at 10:00 PM)
- ❑ Each press of the DISPLAY button changes the display mode:

DISPLAY → TIME → CHANNEL → OFF

CLOSED CAPTION

View the closed captions or text when included in a program.

CLOSED CAPTION

CC → TEXT → OFF

Note: To change caption or text channels see page 20.

Note: To access a captioning option or to turn one off, allow the display to remain on screen until it disappears. In a few seconds the captions will start.

Note: CC2, CC3, CC4, T2, T3, and T4 are functional, however, they are for future purposes.

Note: If a large black box covers 80% of your screen, the Text Mode is probably set. Press CLOSED CAPTION to turn it off.

VIDEO STATUS

The Video Status button lets you select the "Choice" settings of the Set Video Status menu, or reset to factory settings.

"Standard" resets the picture settings to factory standard levels.

"Choice" consists of the settings that you saved in the Set Video Status menu, page 17.

"Theater" for a film-like look to video.

VIDEO STATUS

CHOICE → THEATER → STANDARD

SLEEP TIMER

Sleep Timer turns off the TV for you in case you fall asleep. Program it to work in intervals of 15 minutes up to 180 minutes.

SLEEP TIMER

0 15 30 45 60 75 90 105 120 135 150 165 180

SLEEP TIMER MESSAGE:

20 seconds prior to the automatic shut-off, this message will appear:

GOOD NIGHT ! !
PUSH SLEEP TIMER BUTTON
TO EXTEND.

You then have 20 seconds to press the Sleep Timer button to delay turn off for another 15 minutes.

HYPER SURROUND

Create a deep, 3-dimensional sound effect by channeling the sound through the TV's front firing speakers.

TV / VIDEO

TV/Video selects the input mode.

TV/VIDEO

TV → VIDEO

AV-32820

TV → VIDEO-1 → VIDEO-2

AV-36850, AV-32850, AV-27850

100 +

The 100+ button accesses all channels above Channel 99.

To move to Channel 124:

100+

2 (two)

4 (four)

VCR BUTTONS

This remote will control your VCR. It is preset to control a JVC VCR. For any other brand, you must set the manufacturer's code (page 13).

MENU BUTTONS

The MENU buttons allow you to control the options located in the menu screens. See page 14 for a complete discussion on these buttons.

MUTE

The MUTE button turns the sound off completely when you press. Press it again to restore the volume to the previous level.

NOTES:
You can find another discussion of Return and Return+ on page 11.

RETURN+

There are two kinds of Return...

Return+ *— Set a "Return Channel" to return to after scanning with CHANNEL -/+.*

RETURN+ and hold for 3 seconds

RETURN CHANNEL PROGRAMMED

Scan with CHANNEL -/+

RETURN+

Note: To cancel a Return channel, press and hold Return+ for another 3 seconds until "Return Channel Cancelled!" appears.

Return *— Return to the last channel viewed after moving to another channel via the 10 key pad.*

RETURN+

Move to another channel with the 10 key pad.

RETURN+

Note: When PIP is on, the Return+ button function affects only the main screen.

NUMBER BUTTONS 10 KEY PAD

Change channels with the 10 key pad.

For example, to move to Channel 7:

0 (zero)

7 (seven)

NOTES:

When you turn off the TV, PIP automatically turns off too.

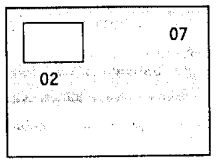
Picture in Picture is not available on model:

- *AV-32820*

PIP (Picture in Picture)

PIP allows you to view two pictures simultaneously.

(PIP) ON/OFF



(PIP) ON/OFF to turn PIP off

Note: The PIP channel and main screen channel will appear in the display momentarily right after you turn on PIP. You can leave them up permanently by pressing DISPLAY 3 times.

Note: The PIP Screen is 1/9 of the regular screen size.

CHANNEL -/+ For PIP

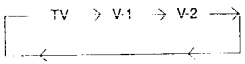
Change the channel in the PIP window.

PIP CHANNEL -/+

SOURCE

You can select the source for the PIP window.

SOURCE



FREEZE

You can freeze the picture in the main screen into the PIP window.

FREEZE

Note: When the PIP is off, pressing FREEZE takes a snapshot of the main screen and puts it into the PIP window... great for catching those mail order addresses.

Note: When the PIP is on FREEZE stops the PIP picture.

SWAP

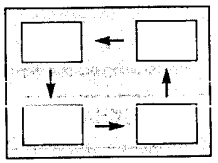
You can swap the PIP picture and the main picture.

SWAP

MOVE

You can move the PIP window to any of the TV's corners.

MOVE



Note: Each press of the MOVE button will shift the PIP window one position.

PROBLEMS	CHECK
No power	• See if the power cord became unplugged. • Perhaps you have experienced a blown circuit breaker or fuse or a power outage.
No picture or sound	• The antenna could be disconnected. • The input mode (TV or Video) could not be set properly, refer to page 23. • The tuner mode (in the menu selection) could be set improperly, refer to page 15. • The station may be having difficulties, check to see if other channels are operating normally.
Remote control is not operating	• Check that the batteries are still working and properly installed. • Make sure there are no objects blocking a clear path from the remote to the TV. • Check that the TV/CATV switch is in the proper position — set to TV to view television.
You cannot select a certain channel	• Maybe you are too far from the TV, you must be within 23 feet (or 7 meters). • Make sure the channels are programmed. See Channel Summary, page 21. • Perhaps the channel is locked, select it with the 10 key pad and follow instructions.
Power turns off	• Perhaps the On/Off Timer is set, press the power button, check page 19. • The power was interrupted or the power cord unplugged. Reset the clock, check page 16. • The Sleep Timer may be set.
The clock is wrong	• The power was interrupted and the clock not reset. Reset the clock, check page 16.
PICTURE	**CHECK**
Poor color quality	• Tint and color may be improperly adjusted. Check page 17. • Video Status mode may be set to an inappropriate setting. Check page 17.
Lines or streaks across the screen	• There could be interference from another energy consuming appliance, such as a computer, another TV or VCR. Move any other such appliances farther away from the TV.
Spotted picture	• There could be interference from a running high wattage appliance such as a hair-dryer, vacuum cleaner, or neon sign. You will have to move the antenna away from the source of the interference or change it to a coaxial cable which is less prone to interference.
Double picture (Ghosts)	• A building or airplane can reflect the original signal producing a second, delayed one. Adjust the antenna position.
Snowy picture/ image noise	• The antenna may be damaged, disconnected or turned. Check the antenna connection, pages 6 to 7. If it is damaged, you will have to replace it.
Screen is 80% black	• Closed Caption Text Mode is on. Press the CLOSED CAPTION button until you select Off.
SOUND	**CHECK**
Bilingual or stereo programs can't be heard	• Make sure the MTS mode is properly set. Refer to page 18 for details on setting MTS Modes.
No sound from TV speakers at all	• TV Speakers may be turned off in the menu, see page 20.
NOT A PROBLEM	**DON'T WORRY ABOUT THIS, IT'S NORMAL**
Static electricity	• It is normal to feel a surge of static electricity if you brush over or touch the screen.
Occasional crackling sounds	• It is normal for the TV to emit crackling sounds when turned on or off. Unless the sound or picture become abnormal, this is fine.

26 LIMITED WARRANTY JVC

For Canadian model televisions, see separate sheets for Warranty/Garantie and JVC Authorized Service Centers in Canada.

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period as shown below (the "Warranty Period"). The picture tube is covered for two years.

Model No.	Serial No.	Parts	Labor
		1 YEAR	1 YEAR

This limited warranty is valid only in the fifty (50) United States, The District of Columbia and the Commonwealth of Puerto Rico.

JVC WILL:

If this product is found to be defective, repair or replace defective parts at no charge to the original owner. Such repairs will be made during regular business hours only at JVC authorized service centers. All parts repaired or replaced are warrantied for the remainder of this Warranty Period only. All products and parts should be brought to an authorized service center on a carry-in basis except for those models with a screen size larger than 25 inches which are covered on an in-home basis.

YOU MUST:

• Return your products to a JVC authorized service center with a copy of your bill of sale. For the authorized JVC service center nearest you, call toll free (800) 252-5722.

• If service is not locally available, box the product carefully, preferably in its original container, and ship it, insured, to the nearest authorized service center with a copy of the bill of sale and a letter of explanation as to the problem. Call the toll free number above for the address.

WHAT IS NOT COVERED:

1) Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if connected to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, or removed;
2) Initial installation, removal for repair, and reinstallation after repair is not covered;
3) Operational adjustments covered in the Owner's manual, normal maintenance, video and audio head cleaning;
4) Damage that occurs during shipment, due to an act of God, or of consequence to cosmetic changes;
5) Signal reception problems and failures due to line power surges;
6) Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7) Accessories, and;
8) Batteries (except for rechargeable batteries which are covered for 90 days from date of purchase.)

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THIS PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long the warranty lasts, so these may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary state to state.

If you have questions concerning your JVC product, please contact our Customer Relations Department:

JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.
41 Slater Drive
Elmwood Park, New Jersey 07407

Refurbished products carry a separate warranty. This warranty does not apply for details of refurbished product warranty. Please refer to the refurbished product warranty information packaged with each refurbished product.

AUTHORIZED SERVICE CENTERS 27

For Canadian model televisions, see separate sheets for Warranty/Garantie and JVC Authorized Service Centers in Canada.

CALL TOLL FREE (800) 252-5722

1) **To locate the JVC Authorized Service Center nearest you.**
2) **To purchase parts or accessories.**
3) **For customer relations or hook-up assistance.**
4) **To locate the JVC authorized dealer nearest you.**

JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF U.S. JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

Dear customer;

In order to receive the most satisfaction from your purchase, read this guide before operating the unit, and before calling for service make sure you check the Troubleshooting pages at the end of this book. In the event that repair is necessary, or for the address nearest you, please refer to the factory service center list below, or within the continental United States, call the toll free number above for an authorized service center. Remember to retain your bill of sale for warranty service.

107 Little Falls Road
Fairfield, NJ 07004-2105
(201) 808-9279

1500 Lakes Parkway
Lawrenceville, GA 30243-5357
(404) 339-2522

705 Enterprise Street
Aurora, IL 60504-8149
(708) 851-7855

5665 Corporate Avenue
Cypress, CA 90630-0024
(714) 229-8011

10700 Hammerly Suite 110
Houston, TX 77043
(713) 935-9331

2969 Mapunapuna Place
Honolulu, HA 96819-2040
(808) 833-5828

230 Eliot Street
Ashland, MA 01721-2377
(508) 881-5923

8192 State Road 84
Davie, FL 33324
(954) 472-1960

890 Dubuque Avenue
South San Francisco, CA 94080-1804
(415) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

National Headquarters
JVC Service & Engineering Company of America
Division of U.S. JVC Corp.
107 Little Falls Road
Fairfield, NJ 07004-2105

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS TV! TO PREVENT ELECTRIC SHOCK, DO NOT OPEN CABINET, AND DO NOT ATTEMPT TO SERVICE THIS TV YOURSELF.

SHIPPING INSTRUCTIONS

- Pack the TV in the original carton or one of equivalent size and strength. Use the original foam cushions or equivalent padding.
- Enclose a letter of explanation stating the problem that exists, and a copy of the bill of sale.
- Print your home address on both the outside and inside of the shipping carton.
- Send to address nearest you in the list above.

SPECIFICATIONS

MODEL	AV-32820	AV-27850	AV-32850	AV-36850
Reception format	NTSC, BTSC System (Multi Channel Sound)			
Reception range	VHF 2 to 13. UHF 14 to 69 Sub Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system)			
Power consumption	Max. 135W / 1.8A	Max. 120W / 1.5A	Max. 135W / 1.8 A	
Screen size	32 inch / 80 cm measured diagonally full square	27 inch / 68 cm measured diagonally full square	32 inch / 80 cm measured diagonally full square	36 inch / 90 cm measured diagonally full square
Audio output	3W + 3W			
Speakers	2" x 4 3/4" / 5 x 12 cm oblong type x 2			3 3/16 x 4 3/4 / 8 x 12 cm oval x 2
Antenna terminal	75 ohms (VHF/UHF) (F-Type Connector)			
External input jacks	Video: 1 Vp-p, 75 ohms Audio: 500mVrms (-4dBs) high impedance			
S-Video input jack	Y: 1 Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms			
Variable audio output jacks	More than 0 to 1550mVrms (+6dBs) Low impedance (400 Hz when modulated 100%)			
AV Compu Link jacks	—	3.5 mm ø mini jack x 2		
Dimensions (inches) WxHxD (cm)	30 1/4 x 26 1/4 x 21 1/2 76.8 x 66.7 x 54.7	25 3/4 x 23 3/8 x 20 1/2 65.4 x 59.1 x 51.8	30 1/4 x 26 1/4 x 21 1/2 76.8 x 66.7 x 54.7	33 7/8 x 30 1/8 x 23 3/4 86.0 x 76.5 x 60.3
Weight (lbs. / kg.)	112.5 / 51.0	67.9 / 30.8	112.5 / 51.0	149.5 / 67.8
Accessories	Remote control unit x 1 / AA batteries x 2			

Specifications subject to change without notice.

JVC®

JVC COMPANY OF AMERICA
A Division of U.S. JVC CORP.
41 Slater Drive
Elmwood Park, New Jersey 07407

JVC CANADA, INC.
21 Finchdene Square
Scarborough, Ontario
Canada M1X 1A7

CQ40343-A01-A
0197-TN-JII-JIM

JVC®

COLOR TELEVISION USER'S GUIDE

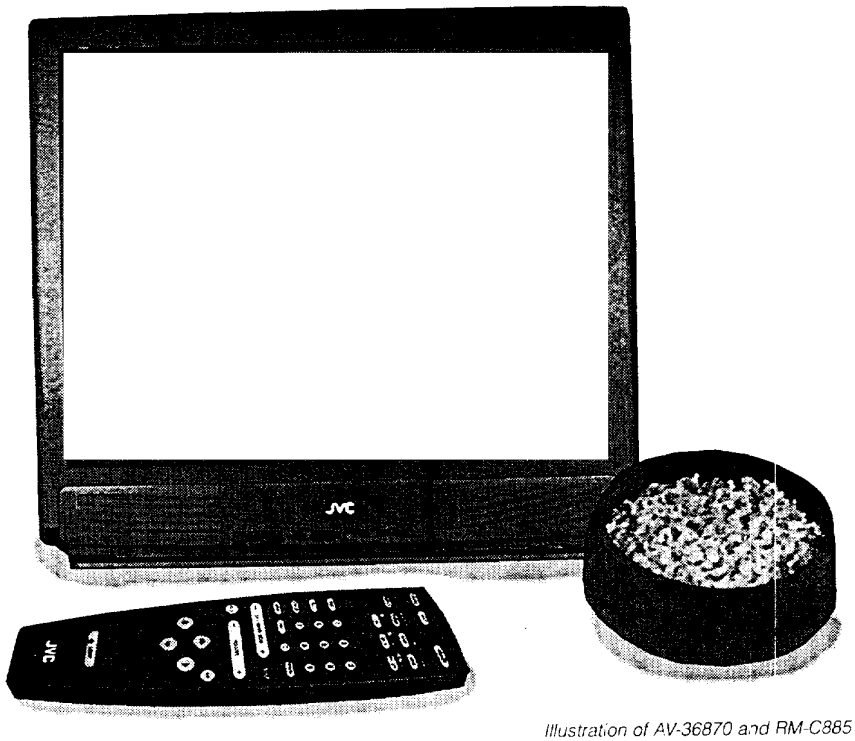


Illustration of AV-36870 and RM-C865

FOR MODELS:

AV-36870 • AV-32870 • AV-27870

In the spaces below, enter the model and serial number
for your television (located on the rear of the television cabinet).
Staple your sales receipt or invoice to the inside cover of this guide.
Keep this user's guide in a convenient place for future reference.
Keep the carton and original packaging for future use.

Model Number _____

Serial Number _____

No.51289

IMPORTANT SAFETY PRECAUTIONS

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: To reduce the risk of electric shock. do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

* When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.

* To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT SAFEGUARDS

CAUTION:

Please read and retain for your safety.
Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But *improper use can result in potential electrical shock or fire hazards.* In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing.
And also follow all warnings and instructions marked on your TV set.

INSTALLATION

1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other).

(POLARIZED-TYPE)

This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.

2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.

3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.

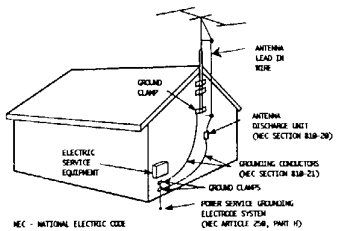
4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.

5 Do not use this TV set near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.

6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection requirements for the grounding electrode.

7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE


ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ARTICLE 250, PART H)
NEC - NATIONAL ELECTRIC CODE

8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released. Therefore:
- — Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
- — Never place a TV set in a "built-in" enclosure unless proper ventilation is provided.
- — Never cover the openings with a cloth or other material.
- — Never place the TV set near or over a radiator or heat register.

9 To avoid personal injury:
- — Do not place a TV set on a sloping shelf unless properly secured. Use only a cart or stand recommended by the TV set manufacturer.
- — Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- — Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

USE

10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.

11 Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.

12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.

13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.

14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

SERVICE

15 Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions.
- A. When the power cord or plug is damaged or frayed.
- B. If liquid has been spilled into the TV set.
- C. If the TV set has been exposed to rain or water.
- D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
- E. If the TV set has been dropped or damaged in any way.
- F. When the TV set exhibits a distinct change in performance — this indicates a need for service.

16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.

18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.

19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.

20 Note to CATV system installer.
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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CONNECTIONS CHECKLIST

READ ME BEFORE CONNECTIONS

1) Refer to the connection instructions in the user's guide for each component you plan to connect (they will provide more detailed information about their products than we can provide).

2) Most A/V input jacks and plugs are color coded:
   - Yellow plugs are Video connections
   - Red plugs are for Right Audio connections
   - White (or black) plugs are Left Audio (Mono) connections

3) Perform one hookup at a time. If you have many accessories to connect, make sure each connection is correct by checking to see that it works properly before attempting the next connection.

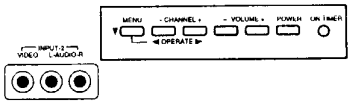
4) Unplug the power cord between each connection.

5) Each jack on the back of the TV is labeled. If you read these instructions and still do not fully understand the connections process, seek assistance.

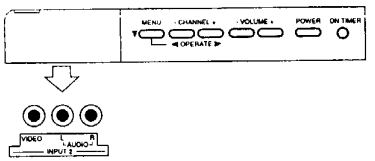
A/V input plug

RF connectors

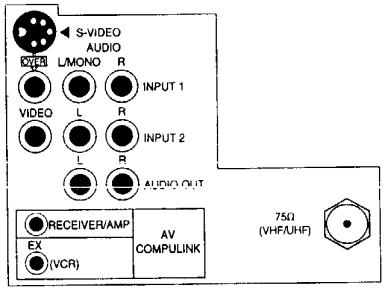
FRONT AND REAR PANEL DIAGRAMS



FRONT PANEL DIAGRAM
AV-32870 • AV-27870



FRONT PANEL DIAGRAM
AV-36870



REAR PANEL DIAGRAM
Common to all models in this book.

Note: You can use either the front panel AV Input, or the Rear Input 2, but not both simultaneously.

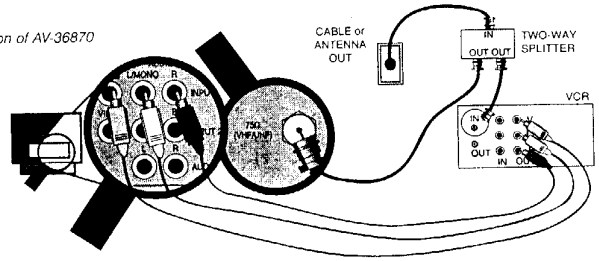
6 CONNECTIONS

CABLE & VCR CONNECTIONS

There are three basic types of antenna or cable hookups. If you have an antenna, or have a cable TV system that does not require you to use a cable box to tune channels, use **Diagram #1.** If you have a cable system that requires you to use a cable box to access all channels, use **Diagram #2.** If you have a cable system that requires you to use a cable box to access certain premium channels, but not regular basic channels, use **Diagram # 3.**

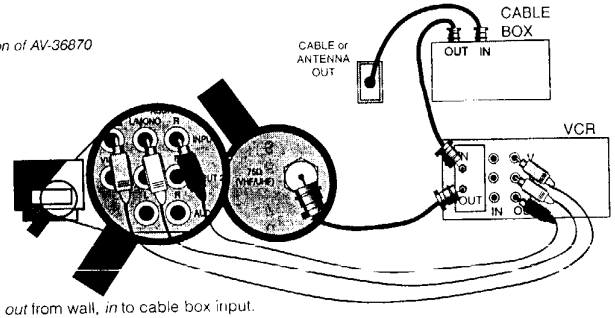
NOTES: *To get stereo sound from a hi-fi stereo VCR, you must connect it to the TV with Audio/Video cables. Also, to get the best picture quality from any VCR use Audio/Video cables. (Use them! You'll be glad you did.)*

#1 *Illustration of AV-36870*



1) Cable or antenna wire *out* from wall, *in* to splitter RF input.
2) *Out* from splitter RF output, *in* to VCR RF input.
3) *Out* from splitter RF output, *in* to TV VHF/UHF input.
4) Yellow video cable *out* from VCR Video output, *in* to TV Video input jack.
5) White audio cable *out* from VCR Left Audio output, *in* to TV Left Audio input jack.
6) Red audio cable *out* from VCR Right Audio output, *in* to TV Right Audio input jack.
❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

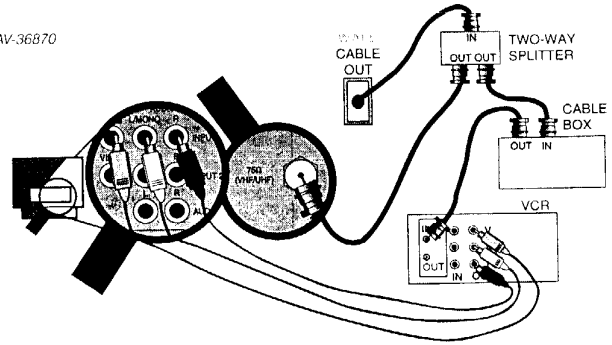
#2 *Illustration of AV-36870*



1) Cable wire *out* from wall, *in* to cable box input.
2) *Out* from cable box RF output, *in* to VCR RF input.
3) *Out* from VCR RF output, *in* to TV VHF/UHF input.
4) Yellow video cable *out* from VCR Video output, *in* to TV Video input jack.
5) White audio cable *out* from VCR Left audio output, *in* to TV Left Audio input jack.
6) Red audio cable *out* from VCR Right Audio output, *in* to TV Right Audio input jack.
❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

CABLE & VCR CONNECTIONS CONTINUED

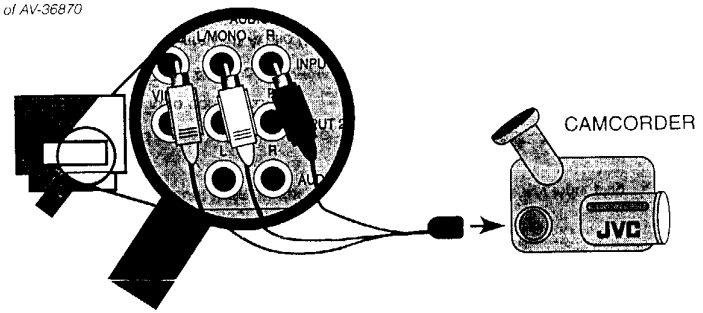
#3 *Illustration of AV-36870*



1) Cable wire *out* from wall, *in* to splitter RF input.
2) *Out* from splitter RF output, *in* to cable box RF input.
3) *Out* from cable box RF output, *in* to VCR RF input.
4) *Out* from splitter RF output, *in* to TV VHF/UHF input.
5) Yellow video cable *out* from VCR Video output, *in* to TV Video input jack.
6) White audio cable *out* from VCR Left audio output, *in* to TV Left Audio input jack.
7) Red audio cable *out* from VCR Right Audio output, *in* to TV Right Audio input jack.
❒ *If your VCR is mono it has only one audio out jack, connect it to TV L/Mono input.*

CONNECTING TO A CAMCORDER

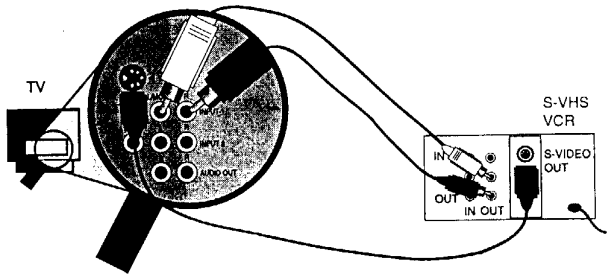
Illustration of AV-36870



Connect a camcorder to your TV.
1) White audio cable *out* from camcorder plug, *in* to TV Left Audio input jack.
2) Yellow video cable *out* from camcorder plug, *in* to TV Video input jack.
3) If you have a stereo model camcorder, Red audio cable *out* from camcorder, *in* to TV Right Audio input jack.
❒ *Refer to the camcorder's instruction book for any special instructions.*

CONNECTING S-VHS ACCESSORIES (VCR or Camcorder)

Illustration of AV-36870



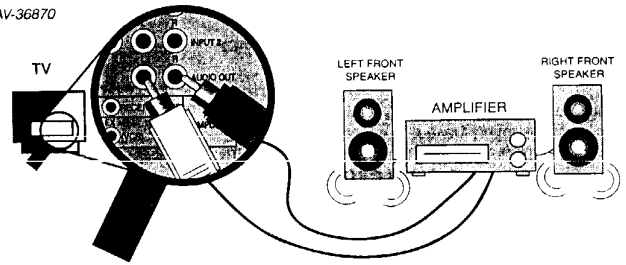
Keeping the audio connections the same as for a non-S-VHS VCR or camcorder (page 7), use the special S-VHS cable that came with the VCR or Camcorder. Illustration is of S-VHS VCR hookup.

1) S-VHS Plug *out* from VCR *in* to TV's S-Video input.

❒ *Refer to your VCR or camcorder instructions.*

CONNECTING TO AN EXTERNAL AMPLIFIER

Illustration of AV-36870



Set the TV Speaker to OFF (page 20), switch the audio output to VARI (page 20), and adjust the sound with the TV remote's VOLUME -/+ button (page 11.)

1) White audio cable *out* from TV Left Audio output jack *in* to Amplifier [Left] input.

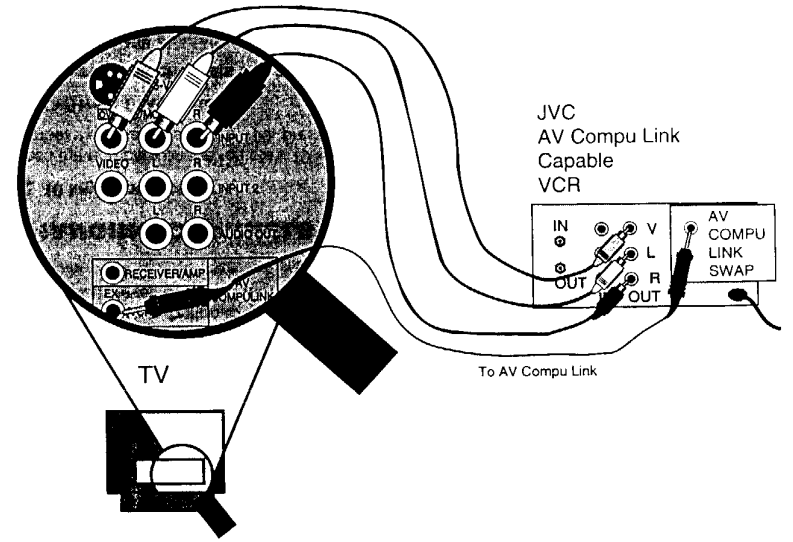
2) Red audio cable *out* from TV Right Audio output jack *in* to Amplifier [Right] input.

❒ *Refer to the amplifier's instructions.*

CONNECTING TO JVC AV COMPULINK CAPABLE COMPONENTS

AV Compu Link makes playing video tapes totally automatic. Simply insert a pre-recorded tape* into the VCR, and the VCR automatically turns on and starts playing. At the same time, the VCR sends an AV Compu Link signal to the television telling it to turn on and switch to the correct video input.

Illustration of AV-36870



NOTES:

1) The AV Compu Link cable has a Male 3.5 mm (mono) mini plug on each end.

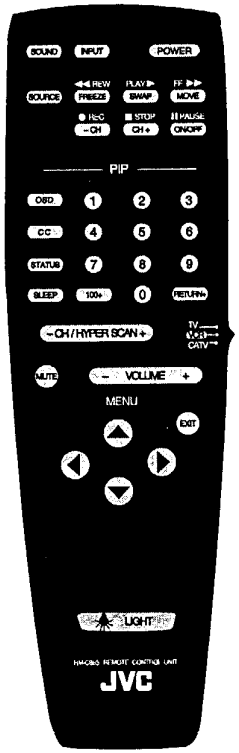
2) If your JVC brand VCR has A Code/B Code Remote Control Switching (see VCR instructions), using VCR A Code will switch the TV to Video Input 1. Using B Code will switch the TV to Video Input 2.

3) To connect a JVC HiFi receiver or amplifier for a completely automated home theater, see the HiFi receiver's instructions for detailed hookup diagrams.

** In order for AV Compu Link to work, the recording tabs must be removed from the VHS tape.*

REMOTE CONTROL

RM-C885



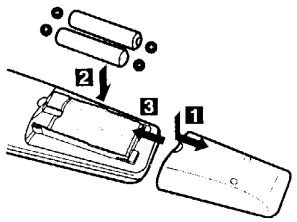
THE ILLUMINATED REMOTE

This remote control is not only good looking, it's bright! Press the Light button and every button lights up so you can see exactly what button you are pressing even in a dark room.

Changing and Inserting Batteries.

Use only size AA batteries.

1. Push down on the triangle on the remote's back cover, and slide the cover off to remove it.
2. Insert the two supplied AA batteries, carefully noting the "+" and "–" markings on the batteries and remote control. **To avoid a short circuit, insert "–" end first.**
3. Snap the cover back into place.



NOTES:

- ❒ *Once the batteries are in the remote and you have confirmed that the remote is working, you must program the remote to operate your particular brand of VCR and/or cable box. Turn to page 12 now and follow the instructions.*
- ❒ *If it takes you more than 50 seconds to change the batteries, you might have to reprogram the CATV and/or VCR codes described on page 12.*
- ❒ *If the remote control acts erratically, replace the batteries. Battery life is usually six months to one year.*
- ❒ *We recommend the use of alkaline batteries for longer battery life.*

POWER

- ❒ Make sure that the TV/CATV/VCR switch is set to TV. Switch to CATV only to operate a cable box.
- ❒ Press the POWER button on the remote control or the TV front panel. The On Timer lamp will glow red.
- ❒ The first time you turn on the TV, the "Plug In Menu" will appear. You should turn to page 15 now to learn more about this menu.
- ❒ To turn the power off, press the POWER button again. The On Timer lamp will go out.
- ❒ The On Timer lamp remains on while the On/Off Timer function is active.

ADJUSTING VOLUME

1. Press the VOLUME button on the front panel or remote control. The volume slidebar will appear.

2. Press the MUTE button to instantly turn the volume off. To restore the volume to the previous level, press the MUTE button again.

CHANGING CHANNELS

1 10 key direct access.

Press the numbers on the remote's 10 key pad. For single-digit channel numbers press 0 then the number. For channels above 100, press the 100+ button plus the 2-digit number.

2 CH/HYPER SCAN button.

- **To scan the channels one at a time,** press the remote's CH/HYPER SCAN button and release.
- **To scan the channels really, really fast,** hold down the remote's CH/HYPER SCAN button and after to channels go by at normal speed, the rest of the channels will rip by at a blazing five channels per second. You will not see the pictures on the channels, but you should watch the channel numbers at the bottom of the screen.

3 Return.

Press and release the RETURN+ button to return to the previous channel. First, select a channel (game #1). Then, select another channel (game #2) with the 10 key pad and push the RETURN+ button to flip directly back and forth.

4 Return+ .

Press and hold down the RETURN+ button for three seconds. The message, "RETURN CHANNEL PROGRAMMED !" will appear and you can scan as you wish. Press RETURN+ again and you will go back to the Return+ channel.

To cancel a Return+ channel, press and hold down the RETURN+ button for another three seconds and the message, "RETURN CHANNEL CANCELLED !" appears.

❒ *Pressing a number key or turning the set off will also cancel a Return+ channel.*

Many CATV & VCR brands have more than one code. If the first code in the list does not work, try the other codes listed. If your CATV box or your VCR do not respond to any of the codes listed for the manufacturer, use the remote control for that accessory to operate it.

TO SET UP THE CATV / AUDIO BOX / SATELLITE CODE

1) Make sure the TV/CATV/VCR switch is set to CATV.
2) Obtain the correct manufacturer's code from the chart below for your brand.
3) Press the **TV POWER** and **RETURN+** buttons simultaneously, then release.
4) Use the 10 keypad to enter the code, then press **RETURN+** (if you do not press RETURN+, your settings will be lost).

TO SET UP THE VCR

1) Make sure the TV/CATV/VCR switch is set to VCR.
2) Follow steps 2 to 4 above.

CABLE BOXES	CODE
ABC	001, 003, 007, 008, 011, 013, 014, 017
Antronix	022, 207
Archer	022, 153, 207
Belcor	056
Cable Star	056
Cabletenna	022
Cableview	022
Century	153
Citizen	153, 315
Colour Voice	025, 031
Comtronics	040
Contec	019
Dae Ryung	008
Eastern	002
Everquest	015, 040
Focus	400
Garrard	153
GC Electronics	056, 207
Gemini	015
General Instrument	011, 276, 476
Goldstar	040, 144
Hamlin	009, 020, 034, 259
Hitachi	011
Hytex	007
Jasco	153, 315
Jerrold	003, 011, 012, 014, 015, 276, 476
Linsay	440
Magnavox	027
Memorex	000
Movie Time	063, 156
Novaplex	515
NSC	063, 156
Oak	007, 019
Panasonic	000, 021, 107
Panther	637
Paragon	000
Philips	025, 027, 031, 153
Pioneer	023, 144, 533
Popular Mechanics	400
Pulsar	000
RCA	021
Realistic	207
Recoton	400
Regal	020, 259
Regency	002
Rembrandt	011
Runco	000
Samsung	040, 144
Scientific Atlanta	006, 008, 017, 277, 477
Seam	510
Signal	015, 040
Signature	011
SL Marx	040
Sprucer	021
Starcom	003, 015
Stargate	015, 040
Starquest	015
Sylvania	001
Tandy	258
Teleview	040
Texscan	001
TFC	310
Tocom	012, 013
Toshiba	000
Tusa	015
TV 86	063
Unika	022, 153, 207
United Artists	007
United Cable	003
Universal	022, 056, 153, 191, 207
Videoway	250
Viewstar	027, 063, 258
Zenith	000, 054, 525
Zentek	400

AUDIO BOXES	CODE
Jerrold	459, 520
Scientific Atlanta	460
Starcom	459

SATELLITE DISHES	CODE
General Instrument	361
Jerrold	361
Primestar	361
RCA	566
Sony	639

VCRs	CODES
Adventura	000
Aiko	278
Aiwa	000
Akai	041, 049, 053, 061, 106
American High	035
Asha	240
Audiovox	037
Beaumark	240
Bell & Howell	104
Broksonic	121, 184, 211, 295, 361
Calix	037
Canon	035
Capehart	020
Carver	081
CCE	072, 278
Citizen	037, 278
Colt	072
Craig	037, 047, 072, 240, 271
Curtis Mathes	035, 041, 060
Cybernex	051, 240
Daewoo	020, 045, 278
Daytron	020
Dynatech	000
Electrohome	037
Electrophonic	037
Emerex	032
Emerson	000, 002, 036, 037, 043, 061, 068, 088, 121, 184, 208, 209, 211, 212, 278, 294, 295, 361, 479
Fisher	047, 054, 066, 104
Fuji	033, 035
Funai	000, 325
Garrard	000, 325
GE	035, 060, 065, 202
Go Video	232
Goldstar	037, 038
Gradiente	000
Grundig	195
Harley Davidson	000
Harmon/Kardon	038, 075
Harwood	068, 072
Headquarter	046
HI-Q	047
Hitachi	041, 042, 065, 105, 166
Jensen	041
JVC	067, 008, 041
KEC	037, 278
Kenwood	038, 041, 067
KLH	072
Kodak	035, 037
Lloyd	000
Lloyd's	208
Logik	072
LXI	037
Magnavox	035, 039, 081, 110, 149
Magnin	240
Marantz	035, 081
Marta	037
Matsushita	035
MEI	035
Memorex	000, 035, 037, 039, 046, 047, 048, 104, 240
MGA	043, 061
MGN Technology	240
Minolta	042, 105
Mitsubishi	043, 061, 067, 075, 173
Motorola	035, 048
MTC	000, 240
Multitech	000, 072
NAD	058
NEC	038, 040, 041, 067, 104
Nikko	037
Noblex	240
Olympus	035
Optimus	037, 048, 058, 104, 162, 432, 454
Optonica	062
Orion	295, 479
Panasonic	035, 077, 162, 225, 454
Penney	035, 037, 038, 040, 042, 054, 240
Pentax	042, 065, 105
Philco	035
Philips	035, 062, 081, 110
Pilot	037
Pioneer	058, 067
Portland	020
Protec	072
Pulsar	039, 051
Quarter	046
Quartz	046
Quasar	035, 077, 162, 454
Radio Shack	000, 037, 325
Radix	037
Randex	037
RCA	042, 060, 065, 077, 105, 106, 149, 202
Realistic	000, 035, 037, 046, 047, 048, 062, 066, 104, 240
Ricoh	034, 253
Runco	039
Salora	075
Samsung	045, 051, 053, 240
Sanky	039, 048
Sansui	041, 067, 271
Sanyo	046, 047, 104, 240
Scott	043, 045, 121, 184, 210, 211, 212
Sears	008, 035, 037, 042, 046, 047, 054, 066, 067, 104, 105
Sharp	048, 062
Shintom	072
Shogun	051, 240
Singer	072
Sony	032, 033, 034, 035, 253
STS	042
Sunpak	253
Sylvania	000, 035, 043, 081, 110
Symphonic	000, 325
Tatung	041
Teac	000, 041
Technics	035, 162
Teknika	000, 035, 037
TMK	036, 208, 240
Toshiba	043, 045, 066, 210, 212, 366
Totevision	037, 240
Unitech	240
Vector	045
Vector Research	038, 040
Video Concepts	040, 045, 061
Videosonic	240
Wards	000, 035, 042, 047, 048, 060, 062, 072, 149, 212, 240
XR-1000	000, 035, 072
Yamaha	038
Zenith	033, 034, 039

14 USING THE MENU

SYMBOLS USED IN THIS GUIDE:

▲▼ Up and down arrows indicate you should press the MENU UP or MENU DOWN button. This function allows you to:
- Move vertically in the main menu
- Move through a submenu, or
- Move to the next letter, number, or other choice in a submenu
- Back up to correct an error

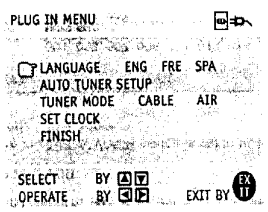
◀▶ Left and right arrows indicate you should press the MENU LEFT or MENU RIGHT button to:
- Select the highlighted item, or
- Select the options in a submenu

The "Press Button" means you should press that button on the remote control.

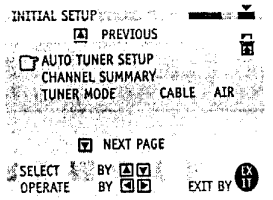
The "Helping Hand" points to the highlighted or selected item in a menu.

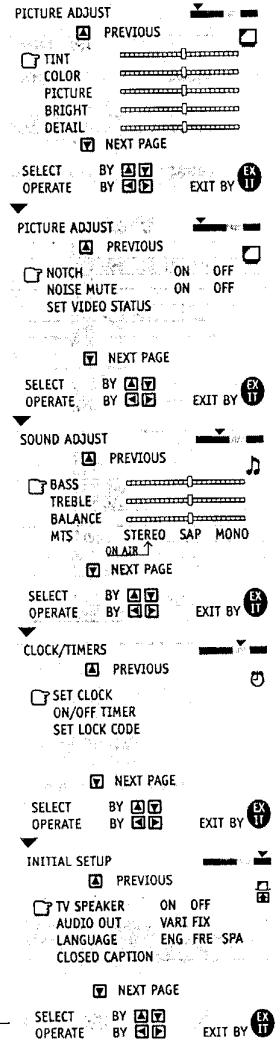
To use the Menu, press any of the remote's 4-way cursor control (MENU) buttons and JVC's transparent scrolling menu will appear on screen. The item that appears yellow is the selected item.

NOTE: The menu screens depicted in this book are representations of the menu screens on your set. They are not exact replications.



The "Plug In Menu" only appears immediately after the TV is plugged in, or after a power interruption of more than 90 seconds.





PLUG IN MENU 15

LANGUAGE

Choose from English, French, or Spanish on-screen menus and displays.

▲▼ To LANGUAGE

LANGUAGE ENG FRE SPA

◀▶ To choose the language

ENGLISH → FRENCH → SPANISH →

AUTO TUNER SETUP

During Auto Tuner Setup, the TV will automatically scan through all available channels and memorize the active ones so that when you scan, you do not pick up vacant, weak or noisy channels.

▲▼ To AUTO TUNER SETUP

◀▶ To operate

NOW
PROGRAMMING!
48

The Programming takes approximately 3 to 4 minutes

PROGRAMMING OVER !

Note: Noise Mute will not work while Auto Tuner Setup is working.

Note: Some weak channels may be included or omitted during this procedure. You can add or delete any channels for scanning in the Channel Summary menu, page 21.

TUNER MODE

Tuner Mode lets you choose between over-the-air broadcasts (AIR) or cable (CABLE) stations.

▲▼ To TUNER MODE

◀▶ To operate

TUNER MODE CABLE AIR

Note: Cable mode requires a cable hookup, see pages 6 and 7 for details.

SET CLOCK (AUTO)

The Clock is the heart of all timer functions. You must set the clock before the On/Off Timer will work.

CHANNEL –/+ to your local PBS Station *(This station carries the EDS or XDS time signal)*

▲▼ To SET CLOCK

◀▶ To operate

MODE AUTO MANUAL
TIME ZONE EASTERN
D.S.T. ON OFF
FINISH

◀▶ To choose AUTO

▼ To TIME ZONE

◀▶ To choose the zone

ATLANTIC → EASTERN → CENTRAL →
← HAWAII ← ALASKA ← PACIFIC ← MOUNTAIN

▼ To D.S.T. (Daylight Savings Time)

◀▶ To turn DST On or Off

▼ To FINISH

◀▶ To exit and save settings

THANK YOU !!

NOTES:

Set Clock — the EDS or XDS signal tells the TV the current time. If AUTO clock set does not work, or if you want to set the TV to a different time, you can set it manually as described on the next page.

NOTES

Remember the Plug In Menu will only appear after you turn on the TV for the first time, or after a power interruption.

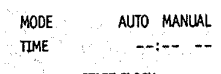
You can exit the Plug In Menu at any time by pressing the EXIT button on the remote control.

You can enter the Plug In Menu any time by simultaneously pressing the MENU button and VOLUME "–" button on the TV's front panel.

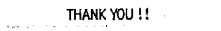
SET CLOCK (MANUAL)

Some areas do not receive the EDS or XDS signal necessary for Auto Set Clock. If you do not receive this signal, or if you want to set the clock to a time other than the current time, use Manual Set Clock.

▲▼ To SET CLOCK
◀▶ To operate



◀▶ To choose MANUAL
▼ To TIME
◀▶ To set the hour (AM/PM)
▼ To move to minutes
◀▶ To set the minutes
▼ To move to START CLOCK
◀▶ To start clock when done

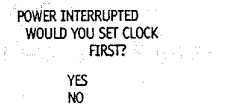


If you want to synchronize the TV clock with another clock or time signal, press LEFT or RIGHT MENU arrow at the appropriate time, and the clock will start.

Note: If the TV is unplugged or you experience a power outage, you must reset the clock for any timer functions to work.

CLOCK SET MESSAGES:

If you do not set the clock but attempt to use the On/Off Timer anyway, you will get the following message:

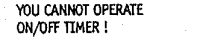


Continued above...

Continued from below...

▼ To YES/NO
◀▶ Choose YES

If you choose NO, you will receive the following message:



Note: If you attempt to "Start Clock" without setting the time you will receive this message:

FINISH

Once you have set up the items in the Plug In Menu you must select Finish. Finish tells the TV that you have selected your personal default options for the menu and clock, and unless there is a power interruption, the Plug In Menu will not show up again.

▲▼ To FINISH
◀▶ To exit

Note: You can reset the options available in Plug In Menu via the regular JVC menu system:

- ❒ Language is found in the Initial Setup Menu.
- ❒ Auto Tuner Setup is found in the Initial Setup Menu.
- ❒ Tuner Mode is found in the Initial Setup Menu.
- ❒ Set Clock is found in the Clock/Timers Menu.

NOTES

To exit the Picture Adjust menu at any time press the EXIT button.

TINT

Adjust the levels of red and green.

▲▼ To TINT
▶ To accentuate green
◀ To accentuate red
▲▼ To move to the next

COLOR

Adjust both the vividness and subtlety of the color.

▲▼ To COLOR
▶ To make colors more vivid
◀ To subdue colors
▲▼ To move to the next

PICTURE

Picture allows you to adjust the picture's range of black and white.

▲▼ To PICTURE
▶ To increase contrast
◀ To decrease contrast
▲▼ To move to the next

BRIGHT

Adjust the degree of light and dark.

▲▼ To BRIGHT
▶ To lighten the picture
◀ To darken the picture
▲▼ To move to the next

DETAIL

Adjust the level of detail in the picture.

▲▼ To DETAIL
▶ To make the picture sharper
◀ To make the picture smoother
▲▼ To move to the next

NOTCH

The Notch Filter sharpens the edges of graphics and text, especially in computer generated graphics common in news and sports programs.

▲▼ To NOTCH
◀▶ To turn ON/OFF

NOISE MUTE

Inserts a blue screen and eliminates noise from channels that are not broadcasting or are too weak.

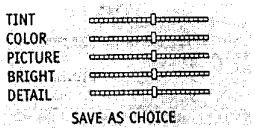
▲▼ To NOISE MUTE
◀▶ To turn ON/OFF

Note: Noise Mute will not work when you operate the Auto Tuner Setup or Channel Summary.

SET VIDEO STATUS

Save Picture Settings as "Choice"

▲▼ To SET VIDEO STATUS
◀▶ To operate



◀▶ To operate the TINT option
▲▼ To move to the next option

Repeat the above steps to set each option.

▲▼ To SAVE AS CHOICE
◀▶ To save settings and exit

Note: Access your "Choice" settings by pressing the VIDEO STATUS button on the remote control.

18 SOUND ADJUST

NOTE:
MTS has no effect on normal sound broadcasts.

BASS

▲▼ To BASS
▶ To emphasize bass
◀ To reduce bass
▲▼ To move to next

TREBLE

▲▼ To TREBLE
▶ To increase treble
◀ To decrease treble
▲▼ To move to next

BALANCE

▲▼ To BALANCE
▶ To shift balance to the right
◀ To shift balance to the left
▲▼ To move to next

MTS (Multi-Channel Television Sound)

MTS technology gives you a choice from among stereo, mono, and Second Audio Programs (SAP).

▲▼ To MTS

◀▶ Select the mode

(The ON AIR arrow tells you if the current signal contains Stereo or SAP)

Note: Keep the TV in STEREO mode to get the fullest sound quality.

Note: SAP will allow you to hear an alternative soundtrack, if available.

Note: Choose MONO to reduce excess noise in a program or channel.

Some Sound Advice

You can tell if a program is broadcast in stereo by the position of the ON AIR arrow in the MTS menu. Unfortunately, it is common for some cable companies to squash the transmission of stereo programs to mono because they only have mono equipment. If your TV is connected to a cable system, the sound is at the mercy of that cable company — if they broadcast in mono, you receive mono sound regardless of the original stereo programming.

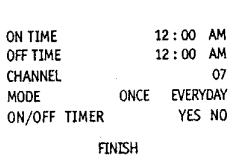
Fortunately, most programs that are broadcast in stereo are aired on the major television networks. If you connect your TV to an antenna instead of cable, and set the Tuner Mode (page 15) to "Air" instead of "Cable," you will be able to pick up stereo broadcasts in stereo.

CLOCK/TIMERS 19

ON/OFF TIMER

YOU tell the TV to turn on and off. Use it as an alarm to wake up, as a program reminder, or as a decoy when you're out of the house.

▲▼ To ON/OFF TIMER
◀▶ To operate



◀▶ To set the hour (AM/PM) you want the TV to turn on
▼ To move to minutes
◀▶ To set the minutes
▼ To accept ON TIME and to move to OFF TIME (set time again)
▼ To move to CHANNEL
◀▶ To select channel
▼ To move to MODE
◀▶ Choose ONCE or EVERYDAY
▼ To YES NO
◀▶ Choose YES for on, NO for off
▼ To FINISH
◀▶ To save settings

Note: In order for ON/OFF Timer to work, the clock must be set. After a power interruption it will be cancelled.

Note: ON/OFF Timer cannot be set to locked or guarded channels.

SET LOCK CODE

The Lock Code locks and unlocks Channel Guard. Write this three digit number down and keep it where would-be viewers will not look for it!

▲▼ To SET LOCK CODE
◀▶ To operate

The padlock icon appears

Zero (*the access code is zero*)

◀▶ To choose the first number
▼ To move to the second place
◀▶ To choose the second number
▼ To move to the third place
◀▶ To choose the third number
▼ To FINISH
◀▶ To save settings and exit

Note: If you forget the Lock Code you can set another one this same way.

Note: After a power interruption you must reset the lock code.

NOTE:
Clock/Timers function:

- *Set Clock*

is described in full detail on pages 15 and 16.

NOTE:

Initial Setup Menu item:

- *Language*

is described in full detail in the Plug In Menu section on page 15.

TV SPEAKER

You can listen to the TV speakers, or if your set is connected to a stereo, turn them off to listen to the stereo's speakers.

▲▼ To TV SPEAKER

◀▶ To turn the speaker ON or OFF

TV SPEAKER ON OFF

EXIT when finished

Note: TV Speaker will be cancelled after a power interruption.

Note: Before you set TV Speaker from Off to On, **make certain that the volume level is low!** If the volume is high, the sound will be extremely loud.

AUDIO OUT

Select fixed level or variable level audio output signals.

▲▼ To AUDIO OUT

AUDIO OUT VARI FIX

◀▶ To VARI or FIX

VARI: Adjust the volume of the external speaker by using the TV's VOLUME +/– button or remote control.

FIX: Adjust the volume of the external speaker with the audio device controls.

Note: When using external amplifiers and speakers, shut off the TV Speakers (above).

CLOSED CAPTION

If they are included in a program, you can view closed captions or text information.

▲▼ To CLOSED CAPTION

◀▶ To operate

CAPTION: CC1 CC2 CC3 CC4
TEXT : T1 T2 T3 T4
BACKGROUND: BLACK CLEAR
FINISH

◀▶ To select a caption channel (CC1 to CC 4)

▼ To accept that channel and move to TEXT

◀▶ To select a text channel (T1 to T4)

▼ To accept that channel and move to BACKGROUND

◀▶ To select BLACK or CLEAR

▼ To accept that selection and move to FINISH

◀▶ To exit and save settings

Note: Captions are usually found on CC1 and text on T1. The other caption and text channels are workable but are for future purposes.

Note: To activate the Closed Caption settings that you set here:

CC

(See page 22 for complete details on the CLOSED CAPTION button.)

CHANNEL SUMMARY

You can add or delete channels from channel scanning. You can also lock out any "unauthorized" viewers from one or up to all 181 channels.

▲▼ To CHANNEL SUMMARY

◀▶ To operate

Note: Noise Mute will not work while you are in the Channel Summary menu.

SCAN

You can manually set channels to scan that were too weak to be picked up during Auto Tuner Setup.Conversely, if a channel was too weak to receive a good picture but was picked up anyway, delete it by removing the √. (If you have not performed the Auto Tuner Setup described on page 15, do so now.)

CH NO.	SCAN	🔒	CH NO.	SCAN	🔒
			06	√	
02	√		07		
03	√		08		
04	√		09	√	
05	√		10	√	

CHANNEL -/+ to select the channel

▲▼ To the SCAN column

◀▶ To include or delete from scan

EXIT when finished

Note: Channels set to scan will be marked with an √.

Note: Some cable systems experience interference from radio frequencies on Cable Channel 95. If you like, you can delete this channel from scanning by removing the √.

Continued above...

Continued from below...

CHANNEL GUARD - LOCK

▲▼ To CHANNEL SUMMARY

◀▶ To operate

CH NO.	SCAN	🔒	CH NO.	SCAN	🔒
			06	√	
02	√		07		🔒
03	√		08		🔒
04	√		09	√	
05	√		10	√	

▲▼ To the Lock column

The access code zero (0) to lock or unlock that channel

Use the CHANNEL -/+ button to go to any other channel you want to lock

EXIT when finished

CHANNEL GUARD MESSAGE:

This message appears when a viewer attempts to watch a guarded channel:

THIS CHANNEL IS LOCKED BY
CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
NO. _ _ _

To watch a channel you have locked, enter the lock code using the 10 key pad.

If the wrong lock code is entered, this message will appear:

INVALID LOCK CODE !

NOTES:

Initial Setup Menu items

- *Auto Tuner Setup, and*
- *Tuner Mode are described in detail on page 15 in the Plug In Menu section.*

In the Channel Summary:

To move up and down a column (e.g. from channel to channel) use the CHANNEL -/+ button

To move from item to item (e.g. from channel number to add to lock) use the arrow up/down keys

NOTES:

Please note that if the TV Clock, SleepTimer, or On/Off Timer are not set, the initial Display screen will state "Clock Not Set," "Sleep Timer Off," and "On/Off Timer Off," respectively.

OSD

The Display screen shows the current status of timers and inputs.

OSD

07	
NOW	12:20 PM
SLEEP TIMER	OFF
ON/OFF TIMER	EVERYDAY
ON TIME	7:00 PM
OFF TIME	10:00 PM

- The channel or AV input (Channel 07)
- Current time (12:20 PM)
- Sleep Timer status minutes remaining (Off)
- On/Off Timer status (Everyday, on at 7:00 PM, off at 10:00 PM)
- Each press of the DISPLAY button changes the display mode:

DISPLAY → TIME → CHANNEL → OFF

CC (CLOSED CAPTION)

View the closed captions or text when included in a program.

CC

CC → TEXT → OFF

Note: To change caption or text channels see page 20.

Note: To access a captioning option or to turn one off, allow the display to remain on screen until it disappears. In a few seconds the captions will start.

Note: CC2, CC3, CC4, T2, T3, and T4 are functional, however, they are for future purposes.

Note: If a large black box covers 80% of your screen, the Text Mode is probably set. Press CLOSED CAPTION to turn it off.

STATUS

The Video Status button lets you select the "Choice" settings of the Set Video Status menu, or reset to factory settings.

"Standard" resets the picture settings to factory standard levels.

"Choice" consists of the settings that you saved in the Set Video Status menu, page 17.

"Theater" for a film-like look to video.

STATUS

CHOICE → THEATER → STANDARD

SLEEP TIMER

Sleep Timer turns off the TV for you in case you fall asleep. Program it to work in intervals of 15 minutes up to 180 minutes.

SLEEP

0 15 30 45 60 75 90 105 120 135 150 165 180

SLEEP TIMER MESSAGE:

20 seconds prior to the automatic shut-off, this message will appear:

GOOD NIGHT ! !
PUSH SLEEP TIMER BUTTON
TO EXTEND.

You then have 20 seconds to press the Sleep Timer button to delay turn off for another 15 minutes.

NOTES:

You can find another discussion of Return and Return+ on page 11.

HYPER SURROUND

Create a deep, 3-dimensional sound effect by channeling the sound through the TV's front firing speakers.

INPUT (TV/VIDEO)

TV/Video selects the input mode.

INPUT

TV → VIDEO1 → VIDEO2

100 +

The 100+ button accesses all channels above Channel 99.

To move to Channel 124:

100+

2 (two)

4 (four)

VCR BUTTONS

Slide the 3-Way Mode Selector to VCR and this remote will control your VCR. You can play, rewind and fast-forward, record, pause, stop, and power on and off.

Note: To set the manufacturer's code for a VCR other than a JVC brand VCR, see (page 13).

MENU BUTTONS

The MENU buttons allow you to control the options located in the menu screens. A complete discussion on these buttons and on the menu is located on page 14.

MUTE

The MUTE button turns the sound off completely when you press. Press it again to restore the volume to the previous level.

RETURN+

There are two kinds of Return...

Return+ *— Set a "Return Channel" to return to after scanning with CHANNEL -/+.*

RETURN+ and hold for 3 seconds

RETURN CHANNEL PROGRAMMED !

Scan with CHANNEL -/+

RETURN+

Note: To cancel a Return channel, press and hold Return+ for another 3 seconds until "Return Channel Cancelled!" appears.

Return *— Return to the last channel viewed after moving to another channel via the 10 key pad.*

RETURN+

Move to another channel with the 10 key pad.

RETURN+

Note: When PIP is on, the RETURN+ button function affects only the main screen.

NUMBER BUTTONS 10 KEY PAD

Change channels with the 10 key pad.

For example, to move to Channel 7:

0 (zero)

7 (seven)

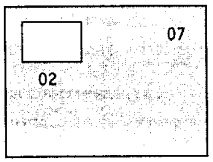
NOTES:

When you turn off the TV, PIP automatically turns off too.

PIP (Picture in Picture)

PIP allows you to view two pictures simultaneously.

(PIP) ON/OFF



(PIP) ON/OFF to turn PIP off

Note: The PIP channel and main screen channel will appear in the display momentarily right after you turn on PIP. You can leave them up permanently by pressing DISPLAY 3 times.

Note: The PIP Screen is 1/9 of the regular screen size.

CHANNEL -/+ For PIP

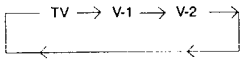
Change the channel in the PIP window.

PIP CHANNEL -/+

SOURCE

You can select the source for the PIP window.

SOURCE



FREEZE

You can freeze the picture in the main screen into the PIP window.

FREEZE

Note: When the PIP is off, pressing FREEZE takes a snapshot of the main screen and puts it into the PIP window... great for catching those mail order addresses.

Note: When the PIP is on FREEZE stops the PIP picture.

SWAP

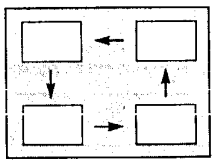
You can swap the PIP picture and the main picture.

SWAP

MOVE

You can move the PIP window to any of the TV's four corners.

MOVE



Note: Each press of the MOVE button will shift the PIP window one position.

PROBLEMS	CHECK
No power	• See if the power cord became unplugged. • Perhaps you have experienced a blown circuit breaker or fuse or a power outage.
No picture or sound	• The antenna could be disconnected. • The input mode (TV or Video) could not be set properly, refer to page 23. • The tuner mode (in the menu selection) could be set improperly, refer to page 15. • The station may be having difficulties, check to see if other channels are operating normally
Remote control is not operating	• Check that the batteries are still working and properly installed. • Make sure there are no objects blocking a clear path from the remote to the TV. • Check that the TV/CATV switch is in the proper position — set to TV to view television.
You cannot select a certain channel	• Maybe you are too far from the TV, you must be within 23 feet (or 7 meters). • Make sure the channels are programmed. See Channel Summary, page 21. • Perhaps the channel is locked, select it with the 10 key pad and follow instructions.
Power turns off	• Perhaps the On/Off Timer is set, press the power button, check page 19. • The power was interrupted or the power cord unplugged. Reset the clock, check pages 15 and 16. • The Sleep Timer may be set.
The clock is wrong	• The power was interrupted and the clock not reset. Reset the clock, check pages 15 and 16.
PICTURE	**CHECK**
Poor color quality	• Tint and color may be improperly adjusted. Check page 17. • Video Status mode may be set to an inappropriate setting. Check page 17.
Lines or streaks across the screen	• There could be interference from another energy consuming appliance, such as a computer, another TV or VCR. Move any other such appliances farther away from the TV.
Spotted picture	• There could be interference from a running high wattage appliance such as a hair-dryer, vacuum cleaner, or neon sign. You will have to move the antenna away from the source of the interference or change it to a coaxial cable which is less prone to interference.
Double picture (Ghosts)	• A building or airplane can reflect the original signal producing a second, delayed one. Adjust the antenna position.
Snowy picture/ Image noise	• The antenna may be damaged, disconnected or turned. Check the antenna connection, pages 6 to 7. If it is damaged, you will have to replace it.
Screen is 80% black	• Closed Caption Text Mode is on. Press the CLOSED CAPTION button until you select Off.
SOUND	**CHECK**
Bilingual or stereo programs can't be heard	• Make sure the MTS mode is properly set. Refer to page 18 for details on setting MTS Modes.
No sound from TV speakers at all	• TV Speakers may be turned off in the menu, see page 20.
NOT A PROBLEM	**DON'T WORRY ABOUT THIS, IT'S NORMAL**
Static electricity	• It is normal to feel a surge of static electricity if you brush over or touch the screen.
Occasional crackling sounds	• It is normal for the TV to emit crackling sounds when turned on or off. Unless the sound or picture become abnormal, this is fine.

26 LIMITED WARRANTY JVC

For Canadian model televisions, see separate sheets for Warranty/Garantie and JVC Authorized Service Centers in Canada.

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period as shown below (the "Warranty Period"). The picture tube is covered for two years.

Model No.	Serial No.	Parts	Labor
		1 YEAR	1 YEAR

This limited warranty is valid only in the fifty (50) United States, The District of Columbia and the Commonwealth of Puerto Rico.

JVC WILL:

If this product is found to be defective, repair or replace defective parts at no charge to the original owner. Such repairs will be made during regular business hours only at JVC authorized service centers. All parts repaired or replaced are warrantied for the remainder of this Warranty Period only. All products and parts should be brought to an authorized service center on a carry-in basis except for those models with a screen size larger than 25 inches which are covered on an in-home basis.

YOU MUST:

• Return your products to a JVC authorized service center with a copy of your bill of sale. For the authorized JVC service center nearest you, call toll free (800) 252-5722.

• If service is not locally available, box the product carefully, preferably in its original container, and ship it, insured, to the nearest authorized service center with a copy of the bill of sale and a letter of explanation as to the problem. Call the toll free number above for the address.

WHAT IS NOT COVERED:

1) Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if connected to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, or removed;
2) Initial installation, removal for repair, and reinstallation after repair is not covered;
3) Operational adjustments covered in the Owner's manual, normal maintenance, video and audio head cleaning;
4) Damage that occurs during shipment, due to an act of God, or of consequence to cosmetic changes;
5) Signal reception problems and failures due to line power surges;
6) Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus (Needle) are covered for 90 days from the date of purchase;
7) Accessories, and;
8) Batteries (except for rechargeable batteries which are covered for 90 days from date of purchase.)

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILTY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THIS PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long the warranty lasts, so these may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary state to state.

If you have questions concerning your JVC product, please contact our Customer Relations Department:
JVC COMPANY OF AMERICA
DIVISION OF US JVC CORP.
41 Slater Drive
Elmwood Park, New Jersey 07407

Refurbished products carry a separate warranty. This warranty does not apply for details of refurbished product warranty. Please refer to the refurbished product warranty information packaged with each refurbished product.

AUTHORIZED SERVICE CENTERS 27

For Canadian model televisions, see separate sheets for Warranty/Garantie and JVC Authorized Service Centers in Canada.

CALL TOLL FREE (800) 252-5722

1) **To locate the JVC Authorized Service Center nearest you.**
2) **To purchase parts or accessories.**
3) **For customer relations or hook-up assistance.**
4) **To locate the JVC authorized dealer nearest you.**

JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF U.S. JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

Dear customer:

In order to receive the most satisfaction from your purchase, read this guide before operating the unit, and before calling for service make sure you check the Troubleshooting pages at the end of this book. In the event that repair is necessary, or for the address nearest you, please refer to the factory service center list below, or within the continental United States, call the toll free number above for an authorized service center. Remember to retain your bill of sale for warranty service.

107 Little Falls Road
Fairfield, NJ 07004-2105
(201) 808-9279

1500 Lakes Parkway
Lawrenceville, GA 30243-5357
(404) 339-2522

705 Enterprise Street
Aurora, IL 60504-8149
(708) 851-7855

5665 Corporate Avenue
Cypress, CA 90630-0024
(714) 229-8011

10700 Hammerly Suite 110
Houston, TX 77043
(713) 935-9331

2969 Mapunapuna Place
Honolulu, HA 96819-2040
(808) 833-5828

230 Eliot Street
Ashland, MA 01721-2377
(508) 881-5923

8192 State Road 84
Davie, FL 33324
(954) 472-1960

890 Dubuque Avenue
South San Francisco, CA 94080-1804
(415) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

National Headquarters
JVC Service & Engineering Company of America
Division of U.S. JVC Corp.
107 Little Falls Road
Fairfield, NJ 07004-2105

THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS TV! TO PREVENT ELECTRIC SHOCK, DO NOT OPEN CABINET AND DO NOT ATTEMPT TO SERVICE THIS TV YOURSELF.

SHIPPING INSTRUCTIONS

- Pack the TV in the original carton or one of equivalent size and strength. Use the original foam cushions or equivalent padding.
- Enclose a letter of explanation stating the problem that exists and a copy of the bill of sale.
- Print your home address on both the outside and inside of the shipping carton.
- Send to address nearest you in the list above.

SPECIFICATIONS

MODEL	AV-36870	AV-32870	AV-27870
Type	Color Television		
Reception Format	NTSC system, BTSC system (Multichannel Sound)		
Reception Range	VHF 2 to 13, UHF 14 to 69 Sub Mid, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system)		
Power Source	AC 120V, 60Hz		
Power Consumption	Max. 135 W / 1.8 A		Max. 120 W / 1.5 A
Screen Size	36"/89 cm measured diagonally, full square	32"/80 cm measured diagonally, full square	27"/68 cm measured diagonally, full square
Audio Output	3W + 3W		
Speakers	3 3/16" x 4 3/4" 8 x 12 cm oval x 2	2" x 4 3/4" 5 x 12 cm oblong x 2	
Antenna Terminal	75 ohms (VHF/UHF) terminal (F-type connector)		
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500 mVrms (-4 dBs), high impedance		
S-Video Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms		
Audio Output Jacks	More than 0 to 1550 mVrms (+6 dBs), low impedance (400 Hz when modulated 100%)		
AV Compu Link Jacks	3.5 mm mini jack x 2		
Dimensions (inches) (W x H x D) – (cm)	33 7/8 x 30 1/8 x 23 3/4 86.0 x 76.5 x 60.3cm	30 1/4 x 26 1/4 x 21 1/2 76.8 x 66.7 x 54.7 cm	25 3/4 x 23 3/8 x 20 1/2 65.4 x 59.1 x 51.8 cm
Weight (lbs.) Weight (kg.)	149.9 (lbs.) 68.0 (kg.)	112.5 (lbs.) 51.0 (kg.)	67.9 (lbs.) 30.8 (kg.)
Accessories	Remote control x 1 AA batteries x 2		

Specifications subject to change without notice.

JVC®

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West Coast :	5665 Corporate Avenue, Cypress, California 90630	(714)229-8011
Southeast :	1500 Lakes Parkway, Lawrenceville, Georgia 30243	(770)339-2522
Hawaii :	2969 Mapunapuna Place, Honolulu, Hawaii 96819	(808)833-5828

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Vancouver :	13040 Worster Court Richmond B.C. V6V 2B3	(604)270-1311

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